FINAL STATUS SURVEY REPORT

SUBSURFACE SOIL CHARACTERIZATION AND FSS PROJECT

NUCLEAR FUEL SERVICES NORTH SITE
Erwin, Tennessee

SURVEY UNITS 4, 6, 7, 12, 16, 17, 18
APPENDICES A - D

PREPARED FOR:

NUCLEAR FUEL SERVICES, INC.

PREPARED BY:

AMEC FOSTER WHEELER ENVIRONMENT & INFRASTUCTURE, INC.
AMEC FOSTER WHEELER PROJECT NO. 9120071235

REVISION 0
DECEMBER 2015

WORK PERFORMED UNDER DOE CONTRACT NO. DE-AC12-04SN39427

amec
foster
wheeler

Appendix A

Historical Datasets

Appendix A.1

Historical Dataset

Survey Unit 4

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
1946	3022790.714	674008.895	0	Am-241	0.308	pCi/g	Post
1946	3022790.714	674008.895	0	Th-232	1.395	pCi/g	Post
1946	3022790.714	674008.895	0	U-235	0.066	pCi/g	Post
1947	3022791.92	674011.745	0	Am-241	0.664	pCi/g	Post
1947	3022791.92	674011.745	0	Th-232	0.927	pCi/g	Post
1947	3022791.92	674011.745	0	U-235	0.199	pCi/g	Post
1948	3022791.415	674014.84	0	Am-241	0.567	pCi/g	Post
1948	3022791.415	674014.84	0	Th-232	1.004	pCi/g	Post
1948	3022791.415	674014.84	0	U-235	0.195	pCi/g	Post
1949	3022796.223	674020.6683	0	Am-241	-0.166	pCi/g	Post
1949	3022796.223	674020.6683	0	Th-232	1.182	pCi/g	Post
1949	3022796.223	674020.6683	0	U-235	0.024	pCi/g	Post
3091	3022777.79	674014.94	0	Am-241	-0.211	pCi/g	Post
3091	3022777.79	674014.94	0	Th-232	1.07	pCi/g	Post
09-S1-003	3022718.536	673896.1145	3.5	Am-241	0	pCi/g	Pre
*****	3022683.543	674137.3309	2.5	Pu-238	0	*****	*****
3091	3022777.79	674014.94	0	U-235	0.113	pCi/g	Post
3092	3022779.85	674019.83	0	Am-241	-0.38	pCi/g	Post
3092	3022779.85	674019.83	0	Th-232	1.112	pCi/g	Post
3092	3022779.85	674019.83	0	U-235	0.079	pCi/g	Post
3093	3022784.84	674013.85	0	Am-241	-0.086	pCi/g	Post
3093	3022784.84	674013.85	0	Th-232	1.286	pCi/g	Post
3093	3022784.84	674013.85	0	U-235	0.301	pCi/g	Post
09-S1-003	3022718.536	673896.1145	3.5	Pu-239/240	0.01	pCi/g	Pre
3332	3022751.01	674029.73	0	Am-241	0.668	pCi/g	Post
3332	3022751.01	674029.73	0	Th-232	1.077	pCi/g	Post
3332	3022751.01	674029.73	0	U-235	-0.082	pCi/g	Post
3334	3022736.33	674027.16	0	Am-241	0.037	pCi/g	Post
3334	3022736.33	674027.16	0	Th-232	0.463	pCi/g	Post
3334	3022736.33	674027.16	0	U-235	-0.028	pCi/g	Post
3335	3022696.52	674031.57	0	Am-241	0.268	pCi/g	Post
3335	3022696.52	674031.57	0	Th-232	1.13	pCi/g	Post
3335	3022696.52	674031.57	0	U-235	0.239	pCi/g	Post
3337	3022721.09	674023.33	0	Am-241	0.277	pCi/g	Post
3337	3022721.09	674023.33	0	Th-232	0.718	pCi/g	Post
3337	3022721.09	674023.33	0	U-235	0.171	pCi/g	Post
3338	3022746.13	674015.02	0	Am-241	0.115	pCi/g	Post
3338	3022746.13	674015.02	0	Th-232	0.082	pCi/g	Post
3338	3022746.13	674015.02	0	U-235	0.065	pCi/g	Post
5316	3022681.05	674038.19	0	Am-241	1.124	pCi/g	Post
5316	3022681.05	674038.19	0	Th-232	1.964	pCi/g	Post
5316	3022681.05	674038.19	0	U-235	0.127	pCi/g	Post
5317	3022676.7	674024.18	0	Am-241	0.412	pCi/g	Post
5317	3022676.7	674024.18	0	Th-232	0.193	pCi/g	Post
5317	3022676.7	674024.18	0	U-235	0.202	pCi/g	Post
5354	3022766.36	674022.25	0	Am-241	-0.147	pCi/g	Post
5354	3022766.36	674022.25	0	Th-232	0.482	pCi/g	Post

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
5354	3022766.36	674022.25	0	U-235	0.189	pCi/g	Post
5355	3022769.49	674029.71	0	Am-241	-0.177	pCi/g	Post
5355	3022769.49	674029.71	0	Th-232	0.358	pCi/g	Post
5355	3022769.49	674029.71	0	U-235	0.038	pCi/g	Post
5356	3022759.88	674027.36	0	Am-241	0.254	pCi/g	Post
09-S1-003	3022718.536	673896.1145	3.5	Pu-241	1.5	pCi/g	Pre
09-S1-003	3022718.536	673896.1145	3.5	Pu-242	0	pCi/g	Pre
09-S1-003	3022718.536	673896.1145	3.5	Tc-99	2.7	pCi/g	Pre
5356	3022759.88	674027.36	0	Th-232	0.779	pCi/g	Post
5356	3022759.88	674027.36	0	U-235	0.1	pCi/g	Post
*****	3022681.11	674027.69	0	Am-241	-0.04475	*****	*****
*****	3022711.39	674033.86	0	Am-241	-0.12025	*****	*****
*****	3022761.01	674018.82	0	Am-241	-0.03825	*****	*****
*****	3022762.86	674014.39	0	Am-241	-0.128	*****	*****
*****	3022783.15	674028.99	0	Am-241	0.008	*****	*****
*****	3022787.73	674023.35	0	Am-241	-0.0335	*****	*****
*****	3022681.11	674027.69	0	Th-232	0.8765	*****	*****
*****	3022711.39	674033.86	0	Th-232	1.0345	*****	*****
09-S1-003	3022718.536	673896.1145	3.5	Th-230	0.7	pCi/g	Pre
*****	3022761.01	674018.82	0	Th-232	0.75	*****	*****
09-S1-003	3022718.536	673896.1145	3.5	Th-232	0.8	pCi/g	Pre
09-S1-003	3022718.536	673896.1145	3.5	U-233/234	0.7	pCi/g	Pre
*****	3022762.86	674014.39	0	Th-232	0.8935	*****	*****
*****	3022681.11	674027.69	0	U-235	0.29	*****	*****
09-S1-003	3022718.536	673896.1145	3.5	U-238	0.6	pCi/g	Pre
*****	3022783.15	674028.99	0	Th-232	1.388	*****	*****
*****	3022787.73	674023.35	0	Th-232	1.1285	*****	*****
*****	3022711.39	674033.86	0	U-235	0.1945	*****	*****
*****	3022761.01	674018.82	0	U-235	0.29	*****	*****
*****	3022762.86	674014.39	0	U-235	0.321	*****	*****
09-S10-039,D	3022647.92	673933.441	3.5	Am-241	0.01	pCi/g	Pre
*****	3022783.15	674028.99	0	U-235	0.201	*****	*****
*****	3022787.73	674023.35	0	U-235	0.28	*****	*****
09-S8-029	3022575.098	673848.6748	0.5	U-235	0.2	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Am-241	0.81	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Pu-238	0.14	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Pu-239/240	2.22	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Pu-241	4.53	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Pu-242	0	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Tc-99	2.9	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Th-230	0.9	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Th-232	1.2	pCi/g	Pre
09-S1-003	3022718.536	673896.1145	3.5	Pu-238	0.13	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	U-233/234	4.1	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Pu-239/240	0.02	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Pu-241	2.71	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	U-235	0.1	pCi/g	Pre

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
09-S8-029	3022575.098	673848.6748	0.5	U-238	1.9	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Am-241	-0.13	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Pu-238	0.05	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Pu-239/240	0	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Pu-241	0	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Pu-242	0	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Tc-99	0	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Th-230	0.7	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Th-232	1.1	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	U-233/234	2.7	pCi/g	Pre
09-S1-003	3022718.536	673896.1145	3.5	U-235	0	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	U-238	0.9	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Am-241	-0.02	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Pu-238	0.11	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Pu-239/240	0	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Pu-241	0	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Pu-242	0	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Pu-242	0	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Tc-99	1.5	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Tc-99	1.6	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Th-230	0.6	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Th-232	1	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Th-230	0.8	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	Th-232	0.9	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	U-233/234	3.6	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	U-233/234	0.6	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	U-235	0.1	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	U-235	0	pCi/g	Pre
09-S10-039,D	3022647.92	673933.441	3.5	U-238	0.5	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	U-238	1.1	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Am-241	0.01	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Am-241	-0.08	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Pu-238	0.14	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Pu-239/240	0.02	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Pu-238	0.21	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Pu-241	2.45	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Pu-242	0	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Pu-239/240	0	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Pu-241	0	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Tc-99	1.6	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Th-230	0.7	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Pu-242	0	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Tc-99	0	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Th-230	0.7	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Th-232	0.9	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	U-233/234	6.2	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Th-232	1	pCi/g	Pre

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
09-S1-004	3022718.536	673896.1145	4.5	U-235	0	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	U-238	1.8	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	U-233/234	1.7	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	U-235	0.1	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Am-241	0.01	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	Pu-238	0.19	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	U-238	0.6	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Am-241	0.91	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Pu-238	0.42	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Pu-239/240	2.49	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Pu-241	4.09	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Pu-242	0	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Tc-99	2.9	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Th-230	1.1	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Th-232	1.8	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	U-233/234	19.5	pCi/g	Pre
09-S4-015	3022581.191	674126.5481	3.5	U-235	0.3	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	U-238	3.4	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Am-241	-0.02	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Pu-238	0.41	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Pu-239/240	0.01	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Pu-241	2.51	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Pu-239/240	0	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Pu-241	0	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Pu-242	0	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Tc-99	0	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Th-230	1.2	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Th-232	1.9	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	U-233/234	6.2	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Pu-242	0	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	U-235	0.1	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	U-238	1.6	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Am-241	0.21	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Pu-238	0.11	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Pu-239/240	0.59	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Pu-241	0.96	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Pu-242	0	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Tc-99	1.8	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Th-230	0.8	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	Th-232	1.3	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	U-233/234	5.3	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	U-235	0.8	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	U-238	1.4	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Am-241	0.37	pCi/g	Pre
09-S8-029	3022575.098	673848.6748	0.5	Pu-238	0.88	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Pu-239/240	1.03	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Pu-241	1.68	pCi/g	Pre

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
555-F5-1	3022472.265	673968.3211	0.5	Pu-242	0	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Tc-99	1.5	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Th-230	0.6	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	U-233/234	2.9	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	U-235	0.4	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	U-238	0.9	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Am-241	231.11	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Pu-238	0.07	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Tc-99	1.6	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Th-230	1.4	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	Th-232	1.6	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Pu-239/240	687.53	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Pu-241	1127.55	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Pu-242	0.03	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Tc-99	4	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Th-230	24	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	U-233/234	49.1	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	U-235	0.3	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	U-238	27.1	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Am-241	-0.26	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	U-233/234	8.6	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Pu-238	0.08	pCi/g	Pre
515-F5-1	3022466.038	674014.3261	0.5	U-235	0.2	pCi/g	Pre
09-S7-027	3022712.769	673913.0175	3.5	U-238	4.9	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Pu-239/240	0	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Am-241	0.01	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Pu-238	0.07	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Pu-241	0	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Pu-242	0	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Tc-99	1.7	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Th-230	0.8	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	U-233/234	4.1	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Pu-239/240	0.02	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	U-235	0	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	U-238	1.2	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Am-241	0.39	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Pu-238	0.08	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Pu-239/240	1.08	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Pu-241	1.77	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Pu-242	0	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Tc-99	2	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Th-230	10.4	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	U-233/234	6.9	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	U-235	0.1	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Pu-241	2.41	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	U-238	1.7	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
09-S8-031	3022575.098	673848.6748	3.5	Tc-99	1.6	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Am-241	0	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Pu-238	0.27	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Pu-239/240	0.01	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Pu-241	0.02	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Pu-242	0	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Tc-99	1	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Th-230	0.9	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Th-232	1.4	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	U-233/234	1	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	U-235	0.1	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	U-238	0.4	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Am-241	0.02	pCi/g	Pre
289-F5-1	3022794.209	674011.7138	0.5	Pu-238	0	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Pu-239/240	0.07	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Pu-241	0.11	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Pu-242	0	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Tc-99	1.3	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Th-230	0.5	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Th-230	0.7	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	Th-232	0.8	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Th-232	0.7	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	U-233/234	1.9	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	U-235	0	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	U-233/234	1	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	U-235	2	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	U-238	0.7	pCi/g	Pre
09-S8-031	3022575.098	673848.6748	3.5	U-238	1	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Am-241	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Am-241	2.41	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Pu-238	0	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Pu-238	0	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Pu-239/240	0.01	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Pu-239/240	5.28	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Pu-241	2.1	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Pu-242	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Pu-241	8.66	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Tc-99	1.5	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Th-230	0.8	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Pu-242	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Tc-99	0	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	Th-232	1.1	pCi/g	Pre
09-S9-035	3022579.172	673956.966	3.5	U-233/234	0.8	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Th-230	5.7	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Th-232	8.3	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	U-233/234	35.9	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	U-235	0.2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
09-S9-035	3022579.172	673956.966	3.5	U-238	0.2	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	U-235	0.1	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Am-241	-0.34	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Pu-238	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	U-238	15.4	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Am-241	-0.07	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Pu-239/240	0	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Pu-241	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Pu-238	0	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Pu-239/240	0	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Pu-241	0	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Pu-242	0	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Tc-99	1.9	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Th-230	1.2	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Th-232	1.9	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	U-233/234	6.2	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	U-235	0.2	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	U-238	1.6	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Am-241	-0.02	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Pu-238	0	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Pu-239/240	0.01	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Pu-241	0	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Pu-242	0	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Tc-99	0	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Pu-242	0	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Tc-99	-1.6	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Th-230	1.1	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Th-232	0.9	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	U-233/234	1	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	U-235	0.3	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	U-238	0.7	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Th-230	0.3	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Am-241	0.56	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Pu-238	0	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Pu-239/240	0	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Pu-241	0	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Pu-242	0	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Tc-99	0	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Th-230	0.5	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Th-232	0.8	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	U-233/234	5.4	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	U-235	0.1	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	U-238	1.4	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Am-241	1.53	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Pu-238	0	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Pu-239/240	4.21	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Pu-241	6.9	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
630-I8-1	3022315.75	674017.492	0.5	Pu-242	0	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Tc-99	3	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Th-230	2.7	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Th-232	4.8	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	U-233/234	23.5	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	U-235	0.2	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	U-238	3.8	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Am-241	0.65	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Pu-238	0	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Pu-239/240	2.79	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Pu-241	4.57	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Pu-242	0	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Tc-99	4.1	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	Th-232	0.4	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	U-233/234	2.1	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	U-235	0	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Th-230	2.8	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Th-232	6.1	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	U-233/234	47.6	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	U-235	0.2	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	U-238	10.6	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Am-241	-0.46	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Pu-238	0	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Pu-239/240	0	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Pu-241	0	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Pu-242	0	pCi/g	Pre
328-C2-4	3022812.748	673943.946	3.5	U-238	0.7	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Tc-99	1.7	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Am-241	-0.01	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Pu-238	0.09	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Th-230	0.7	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Pu-239/240	0	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Pu-241	0	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Th-232	1.1	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	U-233/234	4.3	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	U-235	0.1	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	U-238	1.2	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Am-241	-0.16	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Pu-242	0	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Pu-238	0.1	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Pu-239/240	0	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Pu-241	0	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Pu-242	0	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Tc-99	1.6	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Th-230	1	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Th-232	1.6	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	U-233/234	3.6	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
563-F5-1	3022681.142	673809.0968	0.5	U-235	0.1	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	U-238	1.1	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Am-241	-0.09	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Tc-99	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Pu-238	0.15	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Th-230	0.6	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	Th-232	1	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Pu-239/240	0	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Pu-241	0	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Pu-242	0	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Tc-99	0.4	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Th-230	0.8	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Th-232	1.3	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	U-233/234	4.2	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	U-235	0.1	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	U-238	1.2	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Am-241	0.08	pCi/g	Pre
352-F5-1	3022441.129	674198.3462	0.5	Pu-238	0	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Pu-239/240	0.22	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Pu-241	0.36	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Pu-242	0	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Tc-99	1.6	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Th-230	1	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Th-232	1.6	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	U-233/234	3.4	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	U-233/234	2.9	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	U-235	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	U-235	1.7	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	U-238	1	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Am-241	0.09	pCi/g	Pre
329-B1-4	3022834.258	673923.4231	3.5	U-238	0.9	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Am-241	0.02	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Pu-238	0	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Pu-238	0	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Pu-239/240	0	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Pu-239/240	0.03	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Pu-241	0	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Pu-241	0	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Pu-242	0	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Pu-242	0	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Tc-99	-1.1	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Th-230	0.8	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Tc-99	0	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	Th-232	1.2	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	U-233/234	4.5	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Th-230	0.8	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Th-232	1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
600-F8-1	3022590.763	673836.733	0.5	U-235	0.3	pCi/g	Pre
330-B1-4	3022860.368	673903.5201	3.5	U-238	1.3	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	U-233/234	1.9	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	U-235	0.2	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	U-238	0.7	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Am-241	0.03	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Pu-238	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Am-241	0.43	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Pu-239/240	0	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Pu-241	1.24	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Pu-238	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Pu-239/240	0	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Pu-242	0	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Tc-99	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Pu-241	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Pu-242	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Tc-99	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Th-230	0.8	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Th-232	1.3	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	U-233/234	1.9	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	U-235	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	U-238	0.7	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Am-241	-0.04	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Pu-238	0	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Pu-239/240	0	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Pu-241	0	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Pu-242	0	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Tc-99	1.7	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Th-230	1.9	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	Th-232	0.8	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Th-230	0.9	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Th-232	1.5	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	U-233/234	4.5	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	U-235	0	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	U-238	1.3	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Am-241	0.06	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Pu-238	0	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	U-233/234	0.7	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Pu-239/240	0.15	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Pu-241	0.25	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Pu-242	0	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Tc-99	1.8	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Th-230	0.6	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Th-232	1	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	U-233/234	4.9	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	U-235	0.2	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	U-238	1.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
718-C3-1	3022512.097	673760.548	0.5	Am-241	0.13	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Pu-238	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Pu-239/240	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Pu-241	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Pu-242	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Tc-99	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Th-230	0.9	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Th-232	1.4	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	U-233/234	1	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	U-235	0.1	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	U-238	0.5	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Am-241	0.14	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Pu-238	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Pu-239/240	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Pu-241	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Pu-242	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Tc-99	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Th-230	0.5	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Th-232	0.7	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	U-235	0.9	pCi/g	Pre
331-C2-4	3022891.077	673884.2369	3.5	U-238	0.8	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Am-241	0	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	U-233/234	3	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	U-235	0.2	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	U-238	0.9	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Am-241	0.06	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Pu-238	0	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Pu-239/240	0.03	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Pu-241	14.5	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Pu-242	0	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Tc-99	0	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Th-230	1.3	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Pu-238	0	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Th-232	1.4	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Pu-239/240	0	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Pu-241	0	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	U-233/234	2.8	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Pu-242	0	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Tc-99	0	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	U-235	2.1	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	U-238	1.4	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Am-241	1.08	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Pu-238	0	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Pu-239/240	0	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Th-230	0.6	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Pu-241	0	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
719-I5-1	3022555.358	673752.3255	0.5	Tc-99	0	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Th-230	1.1	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Th-232	1.7	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	U-233/234	13.5	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	Th-232	0.9	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	U-235	0.2	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	U-233/234	0.8	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	U-235	0.1	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	U-238	2.6	pCi/g	Pre
366-C2-4	3022792.866	673917.844	3.5	U-238	0.4	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Am-241	-0.15	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Am-241	0.1	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Pu-238	0	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Pu-238	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Pu-239/240	0	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Pu-239/240	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Pu-241	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Pu-242	0	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Pu-241	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Tc-99	0	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Pu-242	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Th-230	0.5	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Tc-99	0	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	Th-232	0.7	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	U-233/234	2.9	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Th-230	0.6	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	U-235	0.2	pCi/g	Pre
366-J6-4	3022817.227	673928.1542	3.5	U-238	0.9	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Th-232	0.9	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	U-233/234	4	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Am-241	0.07	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Pu-238	0	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	U-235	0.1	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	U-238	1.1	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Am-241	-0.2	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Pu-239/240	0	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Pu-241	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Pu-238	0	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Pu-242	0	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Tc-99	-0.1	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Pu-239/240	0	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Pu-241	0	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Th-230	0.9	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	Th-232	1.4	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Pu-242	0	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Tc-99	0	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Th-230	1.1	pCi/g	Pre

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
758-I8-1	3022543.308	673720.2526	0.5	Th-232	1.7	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	U-233/234	2.5	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	U-235	0.2	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	U-238	0.8	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Am-241	-0.24	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Pu-238	0	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Pu-239/240	0	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Pu-241	0	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Pu-242	0	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Tc-99	0	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Th-230	0.9	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	U-233/234	5.4	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	U-235	0.2	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	Th-232	1.5	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	U-233/234	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	U-235	0.1	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	U-238	0	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Am-241	0.18	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Pu-238	0	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Pu-239/240	0	pCi/g	Pre
367-C2-4	3022818.975	673897.941	3.5	U-238	1.4	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Pu-241	0	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Pu-242	0	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Tc-99	0	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Th-230	0.6	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Th-232	0.9	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	U-233/234	3.2	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	U-235	0.1	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	U-238	1	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Am-241	0.15	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Pu-238	0	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Pu-239/240	0.41	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Pu-241	0.68	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Pu-242	0	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Tc-99	1.8	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Th-230	0.7	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Th-232	1.1	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	U-233/234	4.8	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	U-235	0.1	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	U-238	1.3	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Am-241	0.35	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Pu-238	0	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Pu-239/240	0.96	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Pu-241	1.57	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Pu-242	0	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Tc-99	2.6	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Th-230	0.9	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
555-H6-2	3022478.852	673971.5512	1.5	Th-232	1.3	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	U-233/234	15.1	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Am-241	0.17	pCi/g	Pre
408-J8-1	3022854.786	673858.2655	0.5	Pu-238	0	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Pu-239/240	0	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	U-235	0	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	U-238	2.8	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Am-241	-0.12	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	Pu-238	0	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Pu-239/240	0	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Pu-241	0	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Pu-242	0	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Tc-99	1.4	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Th-230	1	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Th-232	1.6	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Pu-241	0	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	U-233/234	2.3	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Pu-242	0	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Tc-99	0	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	U-235	0.2	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Th-230	0.8	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	Th-232	1.2	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	U-238	0.8	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Am-241	-0.01	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Pu-238	0	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Pu-239/240	0	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Pu-241	0	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	U-233/234	1.6	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Pu-242	0	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Tc-99	1.8	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Th-230	0.5	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Th-232	0.8	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	U-233/234	5.2	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	U-235	0.1	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	U-235	0.2	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	U-238	1.4	pCi/g	Pre
368-C2-4	3022845.085	673878.038	3.5	U-238	0.6	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Am-241	-0.05	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Am-241	-0.14	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Pu-238	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Pu-239/240	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Pu-238	0	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Pu-239/240	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Pu-241	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Pu-242	0	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Pu-241	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Tc-99	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
407-I2-4	3022811.022	673887.5002	3.5	Th-230	0.8	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Pu-242	0	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	Th-232	1.2	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Tc-99	1.1	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	U-233/234	4.4	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Th-230	0.8	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	U-235	0.1	pCi/g	Pre
407-I2-4	3022811.022	673887.5002	3.5	U-238	1.2	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Th-232	1.2	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Am-241	-0.25	pCi/g	Pre
432-F5-1	3022401.364	674146.1422	0.5	Pu-238	0.16	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	U-233/234	1.4	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	U-235	0.1	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Pu-239/240	0	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Pu-241	0	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	U-238	0.6	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Am-241	-0.01	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	Pu-238	0.03	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Pu-242	0	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Tc-99	0	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Pu-239/240	0	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Th-230	0.5	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	Th-232	0.8	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Pu-241	0	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Pu-242	0	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	U-233/234	2.2	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	U-235	0.2	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Tc-99	0	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Th-230	0.4	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Th-232	0.7	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	U-233/234	1.5	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	U-235	0	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	U-238	0.6	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Am-241	0.12	pCi/g	Pre
475-F5-1	3022459.811	674060.3311	0.5	Pu-238	0	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Pu-239/240	0.34	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Pu-241	0.55	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Pu-242	0	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Tc-99	1.7	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Th-230	0.8	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Th-232	1.2	pCi/g	Pre
408-D3-4	3022829.802	673852.5559	3.5	U-238	0.8	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Am-241	-0.07	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	U-233/234	4.5	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	U-235	0.1	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	U-238	1.2	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Am-241	-0.52	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
515-F5-1	3022466.038	674014.3261	0.5	Pu-238	0.04	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Pu-239/240	0	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Pu-241	0	pCi/g	Pre
555-F5-1	3022472.265	673968.3211	0.5	Pu-238	0.07	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Pu-242	0	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Tc-99	3.8	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Th-230	2.5	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Th-232	4.4	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	U-233/234	46.1	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	U-235	0.1	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	U-238	6	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Am-241	0.12	pCi/g	Pre
555-H6-1	3022478.852	673971.5512	0.5	Pu-238	25.11	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Pu-239/240	0.33	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Pu-241	0.55	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Pu-242	0	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Tc-99	1	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Th-230	0.7	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Th-232	1.1	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	U-233/234	1.1	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	U-235	0.5	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	U-238	0.5	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Am-241	0.02	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	Pu-238	0.06	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Pu-239/240	0	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Pu-241	0	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Pu-242	0	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Tc-99	0	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Th-230	0.1	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Th-232	0.1	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	U-233/234	2	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	U-235	0.2	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Pu-239/240	0	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Pu-241	0	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Pu-242	0	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	U-238	0.7	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Am-241	-0.19	pCi/g	Pre
557-F5-1	3022524.484	673928.515	0.5	Pu-238	0	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Pu-239/240	0	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Pu-241	0	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Pu-242	0	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Tc-99	0.7	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Th-230	0.9	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Th-232	1.5	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	U-233/234	0.4	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Tc-99	0	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	U-235	0.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
408-J8-4	3022854.786	673858.2655	3.5	Th-230	0.3	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	Th-232	0.4	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	U-238	0.2	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	U-233/234	1.3	pCi/g	Pre
352-F5-2	3022441.129	674198.3462	1.5	U-235	-0.1	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Am-241	0.03	pCi/g	Pre
558-I2-1	3022548.726	673922.4135	0.5	Pu-238	0.07	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Pu-239/240	0.09	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Pu-241	0.14	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Pu-242	0	pCi/g	Pre
408-J8-4	3022854.786	673858.2655	3.5	U-238	0.5	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Tc-99	1.3	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Th-230	0.6	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Th-232	0.9	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	U-233/234	1.8	pCi/g	Pre
408-J8-2	3022854.786	673858.2655	1.5	U-235	0.1	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	U-238	0.7	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Am-241	-0.12	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Am-241	0.12	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	Pu-238	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Pu-239/240	0	pCi/g	Pre
561-F5-1	3022628.923	673848.9029	0.5	Pu-238	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Pu-241	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Pu-242	0	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Pu-239/240	0.34	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Pu-241	0.56	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Tc-99	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Th-230	0.4	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Pu-242	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Th-232	0.6	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	U-233/234	8.9	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Tc-99	0	pCi/g	Pre
432-F5-2	3022401.364	674146.1422	1.5	U-235	0.2	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Th-230	0.7	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	U-238	2	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Th-232	1	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Am-241	-0.25	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	Pu-238	0	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	U-233/234	2.9	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Pu-239/240	0	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Pu-241	0	pCi/g	Pre
555-H6-2	3022478.852	673971.5512	1.5	U-235	0.6	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	U-238	0.9	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Pu-242	0	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Tc-99	1.5	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Am-241	0.21	pCi/g	Pre
563-F5-1	3022681.142	673809.0968	0.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
632-C2-2	3022340.374	673973.9665	1.5	Pu-239/240	0.59	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Th-230	0.6	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Th-232	1	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Pu-241	0.96	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	U-233/234	2.8	pCi/g	Pre
558-I2-2	3022548.726	673922.4135	1.5	U-235	0.1	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Pu-242	0	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Tc-99	0	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	U-238	0.9	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Am-241	-0.34	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Th-230	0.7	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Th-232	1.1	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	U-233/234	2	pCi/g	Pre
561-F5-2	3022628.923	673848.9029	1.5	U-235	0.2	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	U-238	0.7	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Am-241	0.05	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	Pu-238	0	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Pu-239/240	0.13	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Pu-241	0.22	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Pu-242	0	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Tc-99	0	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Th-230	0.8	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Th-232	1.3	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	U-233/234	0	pCi/g	Pre
590-I8-1	3022335.632	674043.594	0.5	Pu-238	0.23	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Pu-239/240	0	pCi/g	Pre
563-F5-2	3022681.142	673809.0968	1.5	U-235	0.1	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	U-238	0	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Am-241	0.2	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	Pu-238	0	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Pu-239/240	0.55	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Pu-241	0.9	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Pu-242	0	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Pu-241	0	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Tc-99	2.1	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Th-230	0.8	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Th-232	1.3	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	U-233/234	7.6	pCi/g	Pre
590-I8-2	3022335.632	674043.594	1.5	U-235	0.1	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	U-238	1.8	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Am-241	0.46	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	Pu-238	0.02	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Pu-239/240	1.28	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Pu-241	2.09	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Pu-242	0	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Tc-99	1.5	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Th-230	0.8	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
639-F5-2	3022536.939	673836.505	1.5	Th-232	1.2	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	U-233/234	2.9	pCi/g	Pre
594-F5-2	3022426.273	673962.1221	1.5	U-235	0.2	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	U-238	0.9	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Am-241	-0.2	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	Pu-238	0	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Pu-239/240	0	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Pu-241	0	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Pu-242	0	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Tc-99	1.3	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Th-230	0.6	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Th-232	1	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	U-233/234	2.1	pCi/g	Pre
596-F5-2	3022478.492	673922.3161	1.5	U-235	1.8	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	U-238	0.7	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Pu-242	0	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Tc-99	0.7	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Th-230	1.8	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Am-241	0.02	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	Pu-238	0.02	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Pu-239/240	0.06	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Pu-241	0.1	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Pu-242	0	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Tc-99	1.2	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Th-230	0.8	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Th-232	1.2	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	U-233/234	1.6	pCi/g	Pre
599-B1-2	3022538.424	673860.1274	1.5	U-235	0	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Th-232	3.1	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	U-238	0.6	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	U-233/234	0.4	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	U-235	0.1	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Am-241	-0.05	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	U-238	0.2	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Am-241	0.04	pCi/g	Pre
600-F8-1	3022590.763	673836.733	0.5	Pu-238	0	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Pu-239/240	0	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Pu-241	0	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Pu-242	0	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Tc-99	0.3	pCi/g	Pre
601-H8-1	3022620.849	673822.0504	0.5	Pu-238	0.02	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Th-230	0.8	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Th-232	1.2	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	U-233/234	4.1	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	U-235	0	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	U-238	1.2	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Am-241	-0.18	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
09-S1-004	3022718.536	673896.1145	4.5	Pu-239/240	0.12	pCi/g	Pre
604-F5-1	3022687.369	673763.0918	0.5	Pu-238	0	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Pu-241	2.52	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Pu-242	0	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Pu-239/240	0	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Tc-99	1.7	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Th-230	1.3	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Pu-241	0	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Pu-242	0	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	Th-232	1.3	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	U-233/234	1	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Tc-99	0	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	U-235	0.1	pCi/g	Pre
09-S1-004	3022718.536	673896.1145	4.5	U-238	0.8	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Th-230	0.5	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Am-241	0.01	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Th-232	0.7	pCi/g	Pre
604-F5-2	3022687.369	673763.0918	1.5	Pu-238	0	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	U-233/234	0.8	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Pu-239/240	0.02	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Pu-241	3.45	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	U-235	0.1	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Pu-242	0	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Tc-99	1.6	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	U-238	0.4	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Am-241	-0.02	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Th-230	0.5	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	Th-232	0.8	pCi/g	Pre
630-I8-1	3022315.75	674017.492	0.5	Pu-238	0.28	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Pu-239/240	0	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Pu-241	0	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	U-233/234	1.7	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	U-235	0.1	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Pu-242	0	pCi/g	Pre
09-S4-016	3022581.191	674126.5481	4.5	U-238	0.7	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Am-241	0.54	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Tc-99	0	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Th-230	0.7	pCi/g	Pre
630-I8-2	3022315.75	674017.492	1.5	Pu-238	0	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Pu-239/240	1.49	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Th-232	1	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	U-233/234	1.9	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	U-235	0	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	U-238	0.7	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Am-241	0.03	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Pu-238	0.02	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Pu-239/240	0.09	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
673-C2-2	3022372.711	673908.0585	1.5	Pu-241	0.15	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Pu-242	0	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Tc-99	1.2	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Th-230	0.5	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Th-232	0.8	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	U-233/234	1.5	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	U-235	0.3	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Pu-241	14.7	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Pu-242	0	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	U-238	0.6	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Am-241	0.07	pCi/g	Pre
631-C2-1	3022296.37	673973.9665	0.5	Pu-238	0.13	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Pu-239/240	2.18	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Pu-241	3.58	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Pu-242	0	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Tc-99	3.1	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Tc-99	1.6	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Th-230	1.5	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Th-232	2.4	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	U-233/234	33.5	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	U-235	0.1	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	U-238	2.8	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Am-241	0.16	pCi/g	Pre
631-C2-2	3022296.37	673973.9665	1.5	Pu-238	0.01	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Pu-239/240	0.45	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Pu-241	0.74	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Pu-242	0	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Tc-99	1.7	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Th-230	1	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Th-232	1.5	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	U-233/234	4.3	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	U-235	0.1	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	U-238	1.2	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Am-241	0.03	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Pu-238	0.05	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Pu-239/240	0.07	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Pu-241	0.12	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Pu-242	0	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Tc-99	1.5	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Th-230	0.7	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Th-232	1.2	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	U-233/234	3	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	U-235	0.1	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	U-238	0.9	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Am-241	0.02	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Th-230	0.6	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	Th-232	0.9	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
09-S9-036	3022579.172	673956.966	4.5	U-233/234	0.9	pCi/g	Pre
631-I8-2	3022341.859	673973.9665	1.5	Pu-238	0.02	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Pu-239/240	0.06	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Pu-241	0.1	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Pu-242	0	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Tc-99	1.4	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Th-230	0.9	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Th-232	1.5	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	U-233/234	2.4	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	U-235	0.2	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	U-238	0.8	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	U-235	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Am-241	-0.3	pCi/g	Pre
09-S9-036	3022579.172	673956.966	4.5	U-238	0.6	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Am-241	0.01	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Pu-238	0	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	Pu-238	0	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Pu-239/240	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Pu-239/240	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Pu-241	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Pu-242	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Tc-99	3.3	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Th-230	0.6	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Pu-241	0	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Th-232	0.9	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	U-233/234	28.7	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	U-235	0.1	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	U-238	4.4	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Am-241	0.01	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Pu-238	0	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Pu-242	0	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Pu-239/240	0.02	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Tc-99	0	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Th-230	1.2	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Pu-241	1.91	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	Th-232	2	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	U-233/234	5.2	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Pu-242	0	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Tc-99	2.8	pCi/g	Pre
631-I8-4	3022341.859	673997.589	3.5	U-235	0.4	pCi/g	Pre
328-C2-5	3022812.748	673943.946	4.5	U-238	1.4	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Th-230	0.7	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Am-241	0.12	pCi/g	Pre
632-C2-2	3022340.374	673973.9665	1.5	Pu-238	0.04	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	Th-232	0.9	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Pu-239/240	0	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	U-233/234	1.1	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
329-B1-5	3022834.258	673923.4231	4.5	Pu-241	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	U-235	0.2	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Pu-242	0	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Tc-99	0	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	U-238	0.6	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Th-230	0.5	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	Th-232	0.8	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Am-241	0.01	pCi/g	Pre
635-F5-2	3022432.5	673916.1171	1.5	Pu-238	0.01	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	U-233/234	4.1	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	U-235	0.1	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Pu-239/240	0.01	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Pu-241	2.21	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Pu-242	0	pCi/g	Pre
329-B1-5	3022834.258	673923.4231	4.5	U-238	1.2	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Am-241	-0.24	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Tc-99	1.5	pCi/g	Pre
637-F5-2	3022484.719	673876.311	1.5	Pu-238	0.04	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Pu-239/240	0	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Th-230	0.7	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	Th-232	0.8	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Pu-241	0	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Pu-242	0	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	U-233/234	0.6	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	U-235	0.9	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	U-238	0.5	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Am-241	0.01	pCi/g	Pre
639-F5-2	3022536.939	673836.505	1.5	Pu-238	0.08	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Pu-239/240	0.02	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Pu-241	2.76	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Pu-242	0	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Tc-99	1.6	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Th-230	0.9	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	Th-232	1.2	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	U-233/234	4.2	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	U-235	0.2	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	U-238	0.7	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Tc-99	0	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Th-230	1.2	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Am-241	0.04	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Pu-238	0.01	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Pu-239/240	0.1	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Pu-241	2.42	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Pu-242	0	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Tc-99	1.5	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	Th-230	5.4	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	Th-232	1.9	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
09-S7-026	3022712.769	673913.0175	2	Th-232	7.2	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	U-233/234	46.5	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	U-235	0.1	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	U-238	60.1	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Am-241	0	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	Pu-238	0	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Pu-239/240	0.01	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Pu-241	2.63	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Pu-242	0	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Tc-99	1.5	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Th-230	0.5	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	Th-232	0.6	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	U-233/234	0.6	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	U-235	0.1	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	U-238	0.5	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Am-241	0.01	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Pu-238	0	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Pu-239/240	0.02	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Pu-241	1.97	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Pu-242	0	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Tc-99	1.6	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Th-230	0.8	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	Th-232	1.2	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	U-233/234	1.5	pCi/g	Pre
639-F5-4	3022536.939	673836.505	3.5	U-235	0.1	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	U-238	0.8	pCi/g	Pre
*****	3022683.543	674137.3309	2.5	Am-241	-0.11	*****	*****
639-F5-6	3022536.939	673836.505	5.5	Pu-238	0	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	U-233/234	2.8	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	U-235	0	pCi/g	Pre
330-B1-5	3022860.368	673903.5201	4.5	U-238	0.9	pCi/g	Pre
*****	3022683.543	674137.3309	2.5	Pu-239/240	0	*****	*****
*****	3022683.543	674137.3309	2.5	Pu-241	0	*****	*****
*****	3022683.543	674137.3309	2.5	Pu-242	0	*****	*****
*****	3022683.543	674137.3309	2.5	Tc-99	1.3	*****	*****
*****	3022683.543	674137.3309	2.5	Th-230	1.1	*****	*****
*****	3022683.543	674137.3309	2.5	Th-232	1.8	*****	*****
*****	3022683.543	674137.3309	2.5	U-233/234	2.2	*****	*****
639-F5-6	3022536.939	673836.505	5.5	U-235	0.1	pCi/g	Pre
*****	3022683.543	674137.3309	2.5	U-238	0.8	*****	*****
328-C2-3	3022812.748	673943.946	2.5	Am-241	-0.01	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Am-241	0.05	pCi/g	Pre
669-I8-1	3022295.867	673991.39	0.5	Pu-238	0	pCi/g	Pre
670-I8-1	3022321.977	673971.487	0.5	Pu-238	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Pu-239/240	-0.02	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Pu-239/240	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Pu-241	0.22	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
331-C2-5	3022891.077	673884.2369	4.5	Pu-242	0	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Pu-241	0	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Pu-242	0	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Tc-99	0	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Th-230	0.6	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	Th-232	0.9	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Tc-99	0	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	U-233/234	3.8	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	U-235	1.1	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	U-238	1.1	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Am-241	-0.37	pCi/g	Pre
670-I8-2	3022321.977	673971.487	1.5	Pu-238	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Pu-239/240	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Th-230	0.7	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Pu-241	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	Th-232	1.3	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	U-233/234	0.8	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Pu-242	0	pCi/g	Pre
09-S1-002	3022718.536	673896.1145	2	U-235	0	pCi/g	Pre
331-C2-5	3022891.077	673884.2369	4.5	U-238	0.7	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Tc-99	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Th-230	0.7	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Am-241	-0.13	pCi/g	Pre
671-I19-2	3022348.709	673946.9834	1.5	Pu-238	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	Th-232	1.1	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Pu-239/240	0	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Pu-241	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	U-233/234	0.3	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Pu-242	0	pCi/g	Pre
09-S10-038	3022647.92	673933.441	2	U-235	0	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Tc-99	0	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	U-238	0.2	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Th-230	0.8	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	Th-232	1.2	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Am-241	-0.01	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	U-233/234	5.2	pCi/g	Pre
09-S4-014	3022581.191	674126.5481	2	U-235	0.1	pCi/g	Pre
671-I8-2	3022348.087	673951.5839	1.5	Pu-238	0	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Pu-239/240	0	pCi/g	Pre
365-C2-5	3022792.866	673917.844	4.5	U-238	1.4	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Am-241	0.02	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Pu-241	0	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Pu-242	0	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Tc-99	-0.8	pCi/g	Pre
672-C2-1	3022346.601	673927.9615	0.5	Pu-238	0	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Pu-239/240	0	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Th-230	0.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
368-C2-5	3022845.085	673878.038	4.5	Pu-241	0	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Pu-242	0	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	Th-232	0.6	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	U-233/234	4.1	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Tc-99	0	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Th-230	0.8	pCi/g	Pre
09-S7-026	3022712.769	673913.0175	2	U-235	2.4	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	U-238	1.2	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Am-241	-0.46	pCi/g	Pre
672-C2-2	3022346.601	673927.9615	1.5	Pu-238	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Pu-239/240	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Pu-241	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Pu-242	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Tc-99	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Th-230	0.9	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	Th-232	0.9	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	U-233/234	0.9	pCi/g	Pre
09-S8-030	3022575.098	673848.6748	2	U-235	0	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	U-238	0.7	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Am-241	-0.19	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	Th-232	1.3	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	U-233/234	4.5	pCi/g	Pre
672-I8-2	3022374.196	673931.6809	1.5	Pu-238	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Pu-239/240	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Pu-241	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Pu-242	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Tc-99	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Th-230	0.3	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	Th-232	0.5	pCi/g	Pre
09-S9-034	3022579.172	673956.966	2	U-235	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	U-233/234	4.5	pCi/g	Pre
*****	3022683.543	674137.3309	2.5	U-235	0.1	*****	*****
366-C2-3	3022792.866	673917.844	2.5	U-238	1.2	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Am-241	0.04	pCi/g	Pre
673-C2-1	3022372.711	673908.0585	0.5	Pu-238	0.01	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Pu-239/240	0	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Pu-241	0	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Pu-242	0	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Tc-99	0	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Th-230	0.5	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	Th-232	0.7	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	U-233/234	4.9	pCi/g	Pre
328-C2-3	3022812.748	673943.946	2.5	U-235	0.2	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	U-238	1.3	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Am-241	-0.04	pCi/g	Pre
673-C2-2	3022372.711	673908.0585	1.5	Pu-238	0.01	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Pu-239/240	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
367-C2-3	3022818.975	673897.941	2.5	Pu-241	0	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Pu-242	0	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Tc-99	-0.5	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Th-230	0.7	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	Th-232	1.1	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	U-233/234	1.4	pCi/g	Pre
329-B1-3	3022834.258	673923.4231	2.5	U-235	0	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	U-238	0.6	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Am-241	0.08	pCi/g	Pre
675-F5-2	3022438.727	673870.1121	1.5	Pu-238	0.23	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Pu-239/240	0	pCi/g	Pre
368-C2-5	3022845.085	673878.038	4.5	U-238	1.2	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Am-241	-0.39	pCi/g	Pre
677-F5-2	3022490.947	673830.306	1.5	Pu-238	0.03	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Pu-241	0	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Pu-242	0	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Tc-99	0	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Th-230	0.5	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	Th-232	0.8	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	U-233/234	4.1	pCi/g	Pre
330-B1-3	3022860.368	673903.5201	2.5	U-235	0.2	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	U-238	1.2	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Am-241	-0.32	pCi/g	Pre
679-E8-1	3022549.01	673781.9188	0.5	Pu-238	0.02	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Pu-239/240	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Pu-239/240	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Pu-241	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Pu-242	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Pu-241	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Tc-99	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Th-230	0.8	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Pu-242	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Tc-99	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Th-230	0.5	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	Th-232	0.7	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	U-233/234	3.4	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	Th-232	1.3	pCi/g	Pre
331-C2-3	3022891.077	673884.2369	2.5	U-235	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	U-238	1	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Am-241	0	pCi/g	Pre
680-C1-1	3022552.867	673770.7275	0.5	Pu-238	0	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Pu-239/240	0	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Pu-241	0	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	U-233/234	2.1	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Pu-242	0	pCi/g	Pre
366-C2-3	3022792.866	673917.844	2.5	U-235	0.2	pCi/g	Pre
407-I2-5	3022811.022	673887.5002	4.5	U-238	0.8	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
368-I8-3	3022870.692	673879.1471	2.5	Tc-99	0	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Am-241	-0.03	pCi/g	Pre
711-J9-1	3022358.913	673906.1988	0.5	Pu-238	0	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Th-230	0.8	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	Th-232	1.3	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Pu-239/240	0	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Pu-241	0	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	U-233/234	3.6	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Pu-242	0	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Tc-99	0	pCi/g	Pre
366-J6-3	3022817.227	673928.1542	2.5	U-235	0.2	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Th-230	0.5	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	U-238	1.1	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	Th-232	0.8	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Am-241	-0.01	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	U-233/234	0	pCi/g	Pre
367-C2-3	3022818.975	673897.941	2.5	U-235	0.1	pCi/g	Pre
711-J9-2	3022358.913	673906.1988	1.5	Pu-238	0	pCi/g	Pre
408-D3-5	3022829.802	673852.5559	4.5	U-238	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Am-241	0.01	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Pu-239/240	0	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Pu-241	0	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Pu-238	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Pu-239/240	0	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Pu-242	0	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Tc-99	0	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Th-230	0.8	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Pu-241	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Pu-242	0	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	Th-232	1.3	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Tc-99	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Th-230	0.8	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	U-233/234	4.1	pCi/g	Pre
367-F8-3	3022840.606	673893.8298	2.5	U-235	0.2	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	Th-232	1.3	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	U-233/234	1.6	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	U-238	1.2	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Am-241	0.19	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	Pu-238	0	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Pu-239/240	0	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Pu-241	0	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Pu-242	0	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Tc-99	0	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Th-230	0.8	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	Th-232	1.2	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	U-233/234	0	pCi/g	Pre
368-C2-3	3022845.085	673878.038	2.5	U-235	0.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
408-D3-3	3022829.802	673852.5559	2.5	U-238	0	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Am-241	0.04	pCi/g	Pre
712-I8-1	3022380.423	673885.6759	0.5	Pu-238	0.01	pCi/g	Pre
711-J9-4	3022358.913	673906.1988	3.5	U-235	0	pCi/g	Pre
408-J8-5	3022854.786	673858.2655	4.5	U-238	0.6	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Pu-239/240	0	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Pu-241	0	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Pu-242	0	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Tc-99	0	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Th-230	0.7	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	Th-232	1	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	U-233/234	1.8	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Am-241	-0.45	pCi/g	Pre
368-I8-3	3022870.692	673879.1471	2.5	U-235	0.1	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	U-238	0.7	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Am-241	0.13	pCi/g	Pre
712-I8-2	3022380.423	673885.6759	1.5	Pu-238	0	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Pu-239/240	0.35	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Pu-241	0.57	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Pu-242	0	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Tc-99	1.4	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Th-230	0.6	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	Th-232	0.9	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	U-233/234	2.3	pCi/g	Pre
407-I2-3	3022811.022	673887.5002	2.5	U-235	0.2	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	U-238	0.8	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Am-241	0.27	pCi/g	Pre
713-H7-2	3022401.934	673865.1529	1.5	Pu-238	0	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Pu-239/240	0.76	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Pu-241	1.24	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Pu-242	0	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Tc-99	1.2	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Th-230	0.6	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	Th-232	1	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	U-233/234	1.5	pCi/g	Pre
408-D3-3	3022829.802	673852.5559	2.5	U-235	0	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	U-238	0.6	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Am-241	-0.22	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Pu-238	0	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Pu-239/240	0	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Pu-241	0	pCi/g	Pre
718-C3-1	3022512.097	673760.548	0.5	Pu-238	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Pu-239/240	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Pu-241	0	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Pu-242	0	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Tc-99	0.2	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	Th-230	0.5	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
631-I8-3	3022341.859	673997.589	2.5	Th-232	0.7	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	U-233/234	14.7	pCi/g	Pre
408-J8-3	3022854.786	673858.2655	2.5	U-235	0.1	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	U-238	2.8	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Am-241	0.06	pCi/g	Pre
718-J9-1	3022541.68	673766.8775	0.5	Pu-238	0	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Pu-239/240	0.15	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Pu-242	0	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Pu-241	0.25	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Tc-99	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Th-230	0.8	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Pu-242	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	Th-232	1.2	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	U-233/234	3.9	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Tc-99	1.5	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Th-230	0.6	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	Th-232	1	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	U-233/234	3	pCi/g	Pre
630-I8-3	3022315.75	674017.492	2.5	U-235	0.1	pCi/g	Pre
631-C2-3	3022296.37	673973.9665	2.5	U-235	0.1	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	U-238	0.9	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Am-241	-0.03	pCi/g	Pre
719-C2-1	3022535.595	673742.6352	0.5	Pu-238	-0.03	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Pu-239/240	0	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Pu-241	0	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Pu-242	0	pCi/g	Pre
631-I8-5	3022341.859	673997.589	4.5	U-238	1.1	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Tc-99	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Am-241	-0.08	pCi/g	Pre
719-I5-1	3022555.358	673752.3255	0.5	Pu-238	0	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Th-230	0.6	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Pu-239/240	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Pu-241	0	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	Th-232	0.9	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	U-233/234	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Pu-242	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Tc-99	0.7	pCi/g	Pre
631-I8-3	3022341.859	673997.589	2.5	U-235	0.6	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Th-230	0.4	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	Th-232	0.6	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	U-238	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	U-233/234	0.4	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Am-241	-0.43	pCi/g	Pre
639-F5-3	3022536.939	673836.505	2.5	U-235	0.1	pCi/g	Pre
757-J9-1	3022521.798	673740.7756	0.5	Pu-238	0	pCi/g	Pre
639-F5-5	3022536.939	673836.505	4.5	U-238	0.2	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Am-241	0.02	pCi/g	Pre

Historical Dataset, Survey Unit 4

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
713-H7-3	3022401.934	673865.1529	2.5	Pu-239/240	0	pCi/g	Pre
758-I8-1	3022543.308	673720.2526	0.5	Pu-238	0	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Pu-239/240	0.05	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Pu-241	0	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Pu-242	0	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Pu-241	0.08	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Pu-242	0	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Tc-99	2.4	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Th-230	0.6	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	Th-232	1	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Tc-99	1.5	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Th-230	0.4	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	U-233/234	11.6	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	Th-232	0.7	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	U-233/234	2.9	pCi/g	Pre
711-J9-3	3022358.913	673906.1988	2.5	U-235	0	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	U-238	2.4	pCi/g	Pre
713-H7-3	3022401.934	673865.1529	2.5	U-235	0.5	pCi/g	Pre
639-F5-6	3022536.939	673836.505	5.5	U-238	0.9	pCi/g	Pre

Appendix A.2

Historical Dataset

Survey Unit 6

Historical Dataset, Survey Unit 6

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
09-S6-021	3022449.509	673998.045	0.5	Am-241	1.59	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Am-241	0.09	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Am-241	0.01	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Am-241	0.09	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Am-241	-0.11	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Am-241	-4.62	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Am-241	-0.41	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Am-241	0.05	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Am-241	-0.11	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Am-241	-1.93	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Am-241	-2	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Pu-238	0.44	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Pu-238	0.36	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Pu-238	0.44	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-238	0.02	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Pu-238	0	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Pu-238	0	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Pu-238	0	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Pu-238	0.01	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Pu-238	0	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Pu-238	0.23	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Pu-238	0	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Pu-239/240	4.38	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Pu-239/240	0.24	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Pu-239/240	0.02	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-239/240	0.24	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Pu-239/240	0	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Pu-239/240	0	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Pu-239/240	0	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Pu-239/240	0.13	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Pu-239/240	0	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Pu-239/240	4.11	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Pu-239/240	0	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Pu-241	11.9	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Pu-241	2.68	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Pu-241	2.26	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-241	0.39	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Pu-241	0	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Pu-241	0	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Pu-241	0	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Pu-241	0.22	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Pu-241	0	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Pu-241	6.75	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Pu-241	0	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Pu-242	0	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Pu-242	0	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Pu-242	0	pCi/g	Pre

Historical Dataset, Survey Unit 6

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
511-F5-1	3022361.599	674093.9383	0.5	Pu-242	0	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Pu-242	0	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Pu-242	0	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Pu-242	0	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Pu-242	0	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Pu-242	0	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Pu-242	0	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Pu-242	0	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Tc-99	2.9	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Tc-99	1.6	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Tc-99	1.5	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Tc-99	1.4	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Tc-99	1.5	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Tc-99	7.3	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Tc-99	2.1	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Tc-99	1.4	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Tc-99	1.7	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Tc-99	7.8	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Tc-99	6.9	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Th-230	1.9	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Th-230	0.7	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Th-230	1	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Th-230	0.8	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Th-230	0.8	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Th-230	16.3	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Th-230	0.6	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Th-230	0.7	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Th-230	1	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Th-230	29.2	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Th-230	2.1	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	Th-232	4.8	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	Th-232	1	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	Th-232	1	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Th-232	1.2	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	Th-232	1.3	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	Th-232	35.4	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	Th-232	0.9	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	Th-232	1.1	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	Th-232	1.6	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	Th-232	97.9	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	Th-232	3.7	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	U-233/234	12.2	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	U-233/234	1.8	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	U-233/234	16.6	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-233/234	2.7	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	U-233/234	3.1	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	U-233/234	300.2	pCi/g	Pre

Historical Dataset, Survey Unit 6

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
551-F1-2	3022357.383	674055.8945	1.5	U-233/234	7.8	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	U-233/234	2.6	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	U-233/234	4	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	U-233/234	319.9	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	U-233/234	248.9	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	U-235	0.5	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	U-235	0.1	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	U-235	0.3	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-235	0.1	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	U-235	0.1	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	U-235	11.3	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	U-235	0.3	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	U-235	0.1	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	U-235	0.2	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	U-235	13.4	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	U-235	9.4	pCi/g	Pre
09-S6-021	3022449.509	673998.045	0.5	U-238	4.2	pCi/g	Pre
09-S6-022	3022449.509	673998.045	2	U-238	1	pCi/g	Pre
09-S6-023	3022449.509	673998.045	3.5	U-238	8.6	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-238	0.9	pCi/g	Pre
513-F5-1	3022413.819	674054.1322	0.5	U-238	1	pCi/g	Pre
551-F1-1	3022357.383	674055.8945	0.5	U-238	21.5	pCi/g	Pre
551-F1-2	3022357.383	674055.8945	1.5	U-238	1.8	pCi/g	Pre
553-F5-1	3022420.046	674008.1272	0.5	U-238	0.9	pCi/g	Pre
592-F5-1	3022374.054	674001.9282	0.5	U-238	1.2	pCi/g	Pre
593-D3-1	3022390.965	673980.7854	0.5	U-238	50.6	pCi/g	Pre
593-D3-2	3022390.965	673980.7854	1.5	U-238	18.9	pCi/g	Pre

Appendix A.3

Historical Dataset

Survey Unit 7

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
113-D5-1	3022706.877	674276.3246	0.5	Am-241	1.3	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Am-241	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Am-241	-0.17	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Am-241	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Am-241	-0.13	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Am-241	0	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Am-241	-0.22	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Am-241	0.38	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Am-241	-0.45	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Am-241	-0.28	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Am-241	0.08	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Am-241	0.04	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Am-241	0.43	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Am-241	-0.01	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Am-241	-0.1	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Am-241	0.02	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Am-241	-0.23	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Am-241	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Am-241	-0.16	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Am-241	-0.08	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Am-241	-0.24	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Am-241	0.07	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Am-241	0.04	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Am-241	0.36	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Am-241	0.02	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Am-241	0.21	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Am-241	-0.03	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Am-241	-0.01	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Am-241	0.23	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Am-241	0.03	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Am-241	-0.26	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Am-241	-0.47	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Am-241	-0.2	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Am-241	0.08	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Am-241	-0.09	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Am-241	-0.06	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Am-241	0.14	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Am-241	-0.32	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Am-241	0.06	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Am-241	0.03	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Am-241	-0.14	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Am-241	0.31	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Am-241	0.12	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Am-241	0.1	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Am-241	-0.23	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Am-241	0.02	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Am-241	0.05	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
203-C2-1	3022428.532	674360.6036	0.5	Am-241	0.21	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Am-241	-0.1	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Am-241	-0.15	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Am-241	-0.08	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Am-241	0.07	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Am-241	-0.06	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Am-241	-0.07	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Am-241	0.09	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Am-241	-0.6	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Am-241	-0.08	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Am-241	0.03	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Am-241	-0.03	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Am-241	0.16	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Am-241	0.03	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Am-241	-0.08	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Am-241	0.04	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Am-241	0.19	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Am-241	0.04	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Am-241	-0.24	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Am-241	-0.08	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Am-241	0.3	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Am-241	-0.14	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Am-241	-0.09	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Am-241	-0.21	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Am-241	0.04	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Am-241	0.04	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Am-241	0.3	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Am-241	-0.11	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Am-241	-0.29	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Am-241	0.96	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Am-241	-0.02	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Am-241	0.08	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Am-241	0.66	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Am-241	0.03	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Am-241	0.04	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Am-241	-0.16	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Am-241	0.12	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Am-241	0.09	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Am-241	0.52	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Am-241	-0.06	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Am-241	0.03	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Am-241	-0.06	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Am-241	-0.16	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Am-241	-0.21	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Am-241	0.11	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Am-241	-0.02	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Am-241	1.4	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
307-I6-1	3022286.82	674369.6098	0.5	Am-241	0.54	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Am-241	0.05	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Am-241	0.01	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Am-241	0.17	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Am-241	-0.05	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Am-241	-0.21	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Am-241	0.03	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Am-241	0.09	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Am-241	-0.05	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Am-241	-0.04	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Am-241	0.27	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Am-241	-0.17	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Am-241	0.07	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Am-241	2.26	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Am-241	-0.06	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Am-241	-0.09	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Am-241	-0.06	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Am-241	-0.06	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Am-241	0.06	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Am-241	-0.17	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Am-241	-0.45	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Am-241	0.14	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Am-241	0.28	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Am-241	0.03	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Am-241	6.93	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Am-241	2.09	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Am-241	0.14	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Am-241	-0.16	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Am-241	0.08	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Am-241	-0.02	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Am-241	0.05	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Am-241	0.43	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Am-241	-0.4	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Am-241	0.06	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Am-241	0.1	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Am-241	0.29	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Am-241	0.38	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Am-241	2.43	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Am-241	0.48	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Am-241	0.13	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Am-241	0.08	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Am-241	0.05	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Am-241	0.1	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Am-241	0.33	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Am-241	0.29	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Am-241	0.21	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Am-241	0.09	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
430-I8-1	3022362.943	674187.808	0.5	Am-241	1.01	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Am-241	8.3	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Am-241	11.31	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Am-241	3.3	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Am-241	-0.02	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Am-241	0.02	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Am-241	0.19	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Am-241	0.03	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Am-241	0.12	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Am-241	0.29	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Am-241	0.12	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Am-241	0.1	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Am-241	-0.15	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Am-241	-0.05	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Am-241	1.01	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Am-241	-0.22	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Am-241	0.49	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Am-241	-0.08	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Am-241	0.25	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Am-241	0.19	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Am-241	0.61	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Am-241	0.08	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Am-241	0.09	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Am-241	9.76	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Am-241	0.05	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Am-241	0.18	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Am-241	-0.02	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Am-241	-0.08	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Am-241	0.1	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Am-241	0.28	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Am-241	0.2	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Am-241	0.17	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Am-241	0.34	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Am-241	-0.18	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Am-241	0.26	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Am-241	-0.28	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Am-241	3.6	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Am-241	-0.24	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Am-241	0.39	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Am-241	-0.06	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Am-241	-0.08	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Am-241	0.04	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Am-241	-0.05	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Am-241	0.34	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Am-241	0.36	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Am-241	0.21	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Am-241	-0.29	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
589-I8-1	3022309.523	674063.497	0.5	Am-241	0.04	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Am-241	0.44	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Am-241	0.22	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Am-241	0.3	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Am-241	0.25	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Am-241	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Am-241	0.12	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Am-241	-0.15	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Am-241	0.03	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Am-241	0.01	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Am-241	0.1	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Am-241	0.1	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Am-241	0.21	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Am-241	-0.09	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Am-241	-0.24	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Am-241	-0.09	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Am-241	0.04	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Am-241	0.01	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Am-241	0.04	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Am-241	0.12	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Am-241	-0.04	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Am-241	3.87	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Am-241	0.16	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Am-241	0.02	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Am-241	-0.07	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Am-241	-0.02	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Am-241	0.1	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Am-241	-0.18	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Am-241	0.01	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Am-241	0.1	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Am-241	0.15	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Am-241	0.11	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Am-241	0.02	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Am-241	0.08	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Am-241	-0.17	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Am-241	-0.15	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Am-241	0.04	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Am-241	-0.01	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Am-241	0.42	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Am-241	0.04	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Am-241	0.15	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Am-241	0.24	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Am-241	-0.13	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Am-241	0.03	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Am-241	0.04	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Am-241	0.03	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Am-241	-0.13	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
177-E8-2	3022676.934	674220.7599	1.5	Am-241	-0.04	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Am-241	-0.24	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Am-241	0.15	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Am-241	-0.01	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Am-241	-0.12	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Am-241	-0.1	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Am-241	-0.12	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Am-241	-0.02	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Am-241	-0.09	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Am-241	0.07	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Am-241	-0.31	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Am-241	0.47	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Am-241	-0.2	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Am-241	-0.04	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Am-241	-0.09	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Am-241	0.34	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Am-241	0.16	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Am-241	-0.05	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Am-241	-0.08	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Am-241	0.14	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Am-241	0.01	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Am-241	-0.07	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Am-241	-0.05	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Am-241	0.23	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Am-241	-0.04	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Am-241	0.1	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Am-241	-0.07	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Am-241	0.02	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Am-241	0.18	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Am-241	-0.32	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Am-241	-0.2	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Am-241	-0.11	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Am-241	0.01	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Am-241	-0.06	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Am-241	-0.07	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Am-241	-0.04	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Am-241	0.02	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Am-241	-0.13	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Am-241	1.24	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Am-241	0.04	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Am-241	-0.08	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Am-241	0.22	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Am-241	0.18	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Am-241	0.07	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Am-241	-0.01	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Am-241	0.08	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Am-241	0.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
274-I8-2	3022416.363	674312.119	1.5	Am-241	-0.3	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Am-241	0.24	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Am-241	0.15	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Am-241	-0.31	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Am-241	0.33	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Am-241	0.05	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Am-241	-0.19	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Am-241	0.14	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Am-241	0.03	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Am-241	-0.16	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Am-241	-0.2	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Am-241	0.1	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Am-241	-0.06	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Am-241	-0.04	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Am-241	0.02	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Am-241	0.05	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Am-241	-0.27	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Am-241	0.12	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Am-241	0.23	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Am-241	-0.04	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Am-241	-0.14	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Am-241	-0.23	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Am-241	0.03	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Am-241	0.21	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Am-241	-0.09	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Am-241	-0.19	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Am-241	-0.08	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Am-241	-0.08	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Am-241	0.24	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Am-241	-0.11	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Am-241	0.01	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Am-241	0.14	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Am-241	0.07	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Am-241	0.17	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Am-241	0.12	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Am-241	-0.05	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Am-241	0.1	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Am-241	-0.17	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Am-241	0.18	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Am-241	-0.13	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Am-241	0.03	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Am-241	0.31	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Am-241	-0.06	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Am-241	0.32	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Am-241	-0.01	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Am-241	0.09	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Am-241	-0.2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
427-I8-2	3022284.614	674247.5171	1.5	Am-241	-0.02	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Am-241	0.15	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Am-241	0.05	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Am-241	-0.11	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Am-241	-0.1	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Am-241	5.69	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Am-241	-0.2	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Am-241	0.42	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Am-241	0.14	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Am-241	0.19	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Am-241	0.03	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Am-241	-0.16	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Am-241	-0.07	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Am-241	0.05	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Am-241	0.08	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Am-241	0.24	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Am-241	0.01	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Am-241	0.29	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Am-241	-0.18	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Am-241	0.12	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Am-241	-0.07	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Am-241	0.11	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Am-241	-0.19	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Am-241	-0.15	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Am-241	0.09	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Am-241	-0.17	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Am-241	-0.04	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Am-241	1.28	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Am-241	0	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Am-241	0.31	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Am-241	0.1	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Am-241	-0.12	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Am-241	-0.02	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Am-241	-0.07	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Am-241	-0.03	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Am-241	0.71	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Am-241	-0.1	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Am-241	-0.09	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Am-241	0.01	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Am-241	0.5	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Am-241	-0.05	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Am-241	-0.42	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Am-241	-0.06	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Am-241	-0.06	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Am-241	-0.04	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Am-241	-0.29	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Am-241	0.14	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
590-C2-2	3022308.037	674039.8746	1.5	Am-241	0.19	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Am-241	-0.06	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Am-241	0.1	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Am-241	-0.05	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Am-241	-0.23	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Am-241	0	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Am-241	-0.23	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Am-241	-0.01	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Am-241	0.25	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Am-241	-0.04	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Am-241	-0.06	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Am-241	-0.2	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Am-241	0.07	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Am-241	0.39	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Am-241	0.05	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Am-241	0.04	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Am-241	0.07	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Am-241	-0.39	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Am-241	0.18	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Am-241	-0.09	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Am-241	-0.1	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Am-241	0.1	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Am-241	-0.06	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Am-241	0.01	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Am-241	0.16	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Am-241	-0.11	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Am-241	0.12	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Pu-238	0	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Pu-238	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Pu-238	0	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Pu-238	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Pu-238	0	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Pu-238	0	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Pu-238	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Pu-238	0.2	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Pu-238	0	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Pu-238	0	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Pu-238	0	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Pu-238	0	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Pu-238	0	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Pu-238	0	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Pu-238	0	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Pu-238	0	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Pu-238	0	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Pu-238	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Pu-238	0	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
169-C2-1	3022448.415	674386.7056	0.5	Pu-238	0	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Pu-238	0	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Pu-238	-0.01	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Pu-238	0.03	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Pu-238	0.05	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Pu-238	0.09	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Pu-238	-0.05	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Pu-238	0	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Pu-238	0.02	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Pu-238	0.01	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Pu-238	0	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Pu-238	0	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Pu-238	0	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Pu-238	0	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Pu-238	0	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Pu-238	0	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Pu-238	0.04	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Pu-238	0	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Pu-238	0	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Pu-238	0	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Pu-238	0.12	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Pu-238	0.05	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Pu-238	-0.03	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Pu-238	0	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Pu-238	0	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Pu-238	0	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Pu-238	0	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Pu-238	0.03	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Pu-238	0	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Pu-238	0	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Pu-238	0	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Pu-238	0.25	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Pu-238	-0.07	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Pu-238	0.08	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Pu-238	0.02	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Pu-238	0.02	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Pu-238	0.01	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Pu-238	0.01	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Pu-238	0	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Pu-238	0	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Pu-238	0	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Pu-238	0	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Pu-238	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Pu-238	0	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Pu-238	0	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Pu-238	0	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
237-I8-1	3022410.136	674358.124	0.5	Pu-238	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Pu-238	0	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Pu-238	0	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Pu-238	0	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Pu-238	0.02	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Pu-238	-0.01	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Pu-238	0.05	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Pu-238	0.04	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Pu-238	0.02	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Pu-238	0.17	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Pu-238	0	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Pu-238	0.01	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Pu-238	0	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Pu-238	-0.02	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Pu-238	0	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Pu-238	0	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Pu-238	0.03	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Pu-238	0	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Pu-238	0	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Pu-238	-0.01	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Pu-238	-0.05	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Pu-238	0.01	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Pu-238	-0.03	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Pu-238	-0.04	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Pu-238	0	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Pu-238	0.07	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Pu-238	0.25	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Pu-238	0.1	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Pu-238	0.01	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Pu-238	0	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Pu-238	0	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Pu-238	0	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Pu-238	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Pu-238	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Pu-238	0	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Pu-238	0	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Pu-238	0	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Pu-238	0.02	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Pu-238	0	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Pu-238	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Pu-238	1.11	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Pu-238	0	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Pu-238	0	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Pu-238	0	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Pu-238	0	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Pu-238	0	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Pu-238	0.05	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
349-C2-1	3022349.003	674256.1956	0.5	Pu-238	0	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Pu-238	0	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Pu-238	0.05	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Pu-238	0.01	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Pu-238	3.39	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Pu-238	1.2	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Pu-238	0.03	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Pu-238	0	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Pu-238	0	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Pu-238	0	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Pu-238	0	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Pu-238	0	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Pu-238	0	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Pu-238	0.01	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Pu-238	0.02	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Pu-238	0.05	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Pu-238	0.07	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Pu-238	0.44	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Pu-238	0.09	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Pu-238	0.02	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Pu-238	0.01	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Pu-238	0.01	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Pu-238	0.02	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Pu-238	0.06	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Pu-238	0.13	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Pu-238	0.04	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Pu-238	0.02	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Pu-238	0.83	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Pu-238	4.2	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Pu-238	0	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Pu-238	2.17	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Pu-238	0	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Pu-238	0.06	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Pu-238	0	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Pu-238	0	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Pu-238	0	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Pu-238	0	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Pu-238	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Pu-238	0	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Pu-238	0	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Pu-238	0.16	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Pu-238	0.18	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Pu-238	0	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Pu-238	0.09	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Pu-238	0	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Pu-238	0.04	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Pu-238	0.03	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
509-I8-1	3022323.178	674135.604	0.5	Pu-238	0.11	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Pu-238	0.01	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-238	0.02	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Pu-238	1.76	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Pu-238	0.01	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Pu-238	0.03	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Pu-238	0	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Pu-238	0	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Pu-238	0.37	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Pu-238	0.05	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Pu-238	0.04	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Pu-238	0.03	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Pu-238	0.06	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Pu-238	0	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Pu-238	0.05	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Pu-238	0	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Pu-238	0.65	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Pu-238	0	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Pu-238	0.08	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Pu-238	0	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Pu-238	0	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Pu-238	0.01	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Pu-238	0	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Pu-238	0.06	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Pu-238	0.06	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Pu-238	0.04	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Pu-238	0	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Pu-238	0.01	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Pu-238	0.08	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Pu-238	0.04	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Pu-238	0.05	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Pu-238	0.04	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Pu-238	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Pu-238	0.02	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Pu-238	0	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Pu-238	0.01	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Pu-238	0	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Pu-238	0.02	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Pu-238	0.02	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Pu-238	0.04	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Pu-238	0	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Pu-238	0	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Pu-238	0	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Pu-238	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Pu-238	0	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Pu-238	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
116-D1-2	3022414.891	674204.6736	1.5	Pu-238	0	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Pu-238	0	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Pu-238	0	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Pu-238	0	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Pu-238	0	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Pu-238	0	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Pu-238	0	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Pu-238	0	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Pu-238	0	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Pu-238	0	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Pu-238	0	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Pu-238	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Pu-238	0	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Pu-238	0	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Pu-238	0.08	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Pu-238	-0.03	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Pu-238	-0.02	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Pu-238	0	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Pu-238	0.06	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Pu-238	0.01	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Pu-238	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Pu-238	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Pu-238	0	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Pu-238	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Pu-238	0	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Pu-238	0	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Pu-238	0	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Pu-238	0	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Pu-238	0	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Pu-238	0	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Pu-238	0	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Pu-238	0	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Pu-238	0	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Pu-238	0	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Pu-238	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Pu-238	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Pu-238	0	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Pu-238	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Pu-238	0	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Pu-238	0	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Pu-238	-0.05	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Pu-238	0.03	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Pu-238	-0.07	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Pu-238	0.06	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Pu-238	0	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Pu-238	-0.05	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Pu-238	0.03	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
208-I8-2	3022586.675	674264.8078	1.5	Pu-238	0	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Pu-238	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Pu-238	0	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Pu-238	0.04	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Pu-238	0	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Pu-238	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Pu-238	0	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Pu-238	0	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Pu-238	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Pu-238	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Pu-238	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Pu-238	0	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Pu-238	0	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Pu-238	-0.03	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Pu-238	0.01	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Pu-238	0	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Pu-238	0.03	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Pu-238	-0.07	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Pu-238	0.22	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Pu-238	0.01	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Pu-238	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Pu-238	0	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Pu-238	0	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Pu-238	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Pu-238	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Pu-238	0	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Pu-238	0	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Pu-238	0	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Pu-238	-0.04	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Pu-238	-0.02	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Pu-238	-0.09	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Pu-238	-0.02	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Pu-238	0	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Pu-238	0	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Pu-238	0.03	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Pu-238	0.01	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Pu-238	0	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Pu-238	0	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Pu-238	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Pu-238	0	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Pu-238	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Pu-238	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Pu-238	0	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Pu-238	0	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Pu-238	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Pu-238	0	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
345-I8-2	3022272.16	674339.5272	1.5	Pu-238	0	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Pu-238	0	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Pu-238	0	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Pu-238	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Pu-238	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Pu-238	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Pu-238	0	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Pu-238	0	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Pu-238	0	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Pu-238	0	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Pu-238	0	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Pu-238	0.02	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Pu-238	0.01	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Pu-238	0.03	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Pu-238	0.02	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Pu-238	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Pu-238	-0.03	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Pu-238	0	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Pu-238	0	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Pu-238	0	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Pu-238	0.01	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Pu-238	0.06	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Pu-238	0	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Pu-238	0.06	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Pu-238	0	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Pu-238	0.02	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Pu-238	0	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Pu-238	0	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Pu-238	0.03	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Pu-238	0.01	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Pu-238	0	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Pu-238	0	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Pu-238	1.02	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Pu-238	0	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Pu-238	0	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Pu-238	0	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Pu-238	0	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Pu-238	0	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Pu-238	0	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Pu-238	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Pu-238	0	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Pu-238	0	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Pu-238	0	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Pu-238	0	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Pu-238	0	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Pu-238	0	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Pu-238	0.02	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
506-I8-2	3022244.849	674195.3131	1.5	Pu-238	0	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Pu-238	0.02	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Pu-238	0	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Pu-238	0	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Pu-238	0.02	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Pu-238	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Pu-238	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Pu-238	0.37	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Pu-238	0	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Pu-238	0.06	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Pu-238	0.02	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Pu-238	0	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Pu-238	0	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Pu-238	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Pu-238	0	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Pu-238	0.38	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Pu-238	0	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Pu-238	0	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Pu-238	0	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Pu-238	0.09	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Pu-238	0	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Pu-238	0	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Pu-238	0	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Pu-238	0	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Pu-238	0	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Pu-238	0	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Pu-238	0.03	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Pu-238	0.03	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Pu-238	0	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Pu-238	0.01	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Pu-238	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Pu-238	0	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Pu-238	0	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Pu-238	0	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Pu-238	0	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Pu-238	0.04	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Pu-238	0	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Pu-238	0	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Pu-238	0	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Pu-238	0.01	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Pu-238	0.07	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Pu-238	0.01	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Pu-238	0.01	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Pu-238	0.01	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Pu-238	0	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Pu-238	0.03	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Pu-238	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
630-C2-3	3022288.155	674013.7726	2.5	Pu-238	0	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Pu-238	0	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Pu-238	0	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Pu-238	0.02	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Pu-238	0.03	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Pu-238	0	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Pu-238	0.02	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Pu-239/240	0	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Pu-239/240	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Pu-239/240	0	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Pu-239/240	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Pu-239/240	0	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Pu-239/240	0	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Pu-239/240	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Pu-239/240	3.86	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Pu-239/240	0	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Pu-239/240	0	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Pu-239/240	0	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Pu-239/240	0	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Pu-239/240	0	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Pu-239/240	0	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Pu-239/240	0	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Pu-239/240	0	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Pu-239/240	0	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Pu-239/240	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Pu-239/240	0	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Pu-239/240	0	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Pu-239/240	0	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Pu-239/240	0	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Pu-239/240	0.05	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Pu-239/240	0.2	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Pu-239/240	0.12	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Pu-239/240	0.03	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Pu-239/240	0.1	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Pu-239/240	0	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Pu-239/240	3.5	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Pu-239/240	0.08	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Pu-239/240	0	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Pu-239/240	0	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Pu-239/240	0	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Pu-239/240	0	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Pu-239/240	0	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Pu-239/240	0	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Pu-239/240	0.22	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Pu-239/240	0	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Pu-239/240	0	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Pu-239/240	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
179-D2-1	3022711.499	674190.2854	0.5	Pu-239/240	0.71	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Pu-239/240	0.19	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Pu-239/240	0.05	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Pu-239/240	0	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Pu-239/240	0	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Pu-239/240	0	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Pu-239/240	0	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Pu-239/240	0.26	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Pu-239/240	0	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Pu-239/240	0	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Pu-239/240	0	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Pu-239/240	0.23	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Pu-239/240	0.15	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Pu-239/240	0.05	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Pu-239/240	0.45	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Pu-239/240	0.06	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Pu-239/240	0.33	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Pu-239/240	0.09	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Pu-239/240	0	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Pu-239/240	0	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Pu-239/240	0	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Pu-239/240	0	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Pu-239/240	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Pu-239/240	0	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Pu-239/240	0	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Pu-239/240	0	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Pu-239/240	0	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Pu-239/240	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Pu-239/240	0	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Pu-239/240	0	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Pu-239/240	0	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Pu-239/240	0.02	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Pu-239/240	0.08	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Pu-239/240	2.2	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Pu-239/240	0.21	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Pu-239/240	0.06	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Pu-239/240	2.63	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Pu-239/240	0	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Pu-239/240	0.22	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Pu-239/240	0	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Pu-239/240	0.03	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Pu-239/240	0	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Pu-239/240	0	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Pu-239/240	0.22	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Pu-239/240	0	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Pu-239/240	0	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Pu-239/240	0.15	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
275-C2-1	3022414.877	674288.4966	0.5	Pu-239/240	0.04	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Pu-239/240	0.05	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Pu-239/240	0.04	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Pu-239/240	0.05	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Pu-239/240	0	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Pu-239/240	0.19	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Pu-239/240	3.84	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Pu-239/240	1.47	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Pu-239/240	0.12	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Pu-239/240	0.04	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Pu-239/240	0	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Pu-239/240	0	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Pu-239/240	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Pu-239/240	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Pu-239/240	0	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Pu-239/240	0	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Pu-239/240	0	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Pu-239/240	0.11	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Pu-239/240	0	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Pu-239/240	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Pu-239/240	14.69	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Pu-239/240	0	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Pu-239/240	0	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Pu-239/240	0	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Pu-239/240	0	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Pu-239/240	0	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Pu-239/240	0.05	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Pu-239/240	0	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Pu-239/240	0	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Pu-239/240	0.76	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Pu-239/240	0.09	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Pu-239/240	47.94	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Pu-239/240	13	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Pu-239/240	0.39	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Pu-239/240	0	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Pu-239/240	0	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Pu-239/240	0	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Pu-239/240	0	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Pu-239/240	0	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Pu-239/240	0	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Pu-239/240	0.16	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Pu-239/240	0.28	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Pu-239/240	0.8	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Pu-239/240	1.04	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Pu-239/240	6.68	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Pu-239/240	1.32	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Pu-239/240	0.35	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
427-C2-1	3022257.019	674243.7977	0.5	Pu-239/240	0.22	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Pu-239/240	0.14	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Pu-239/240	0.28	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Pu-239/240	0.9	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Pu-239/240	0.74	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Pu-239/240	0.59	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Pu-239/240	0.26	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Pu-239/240	12.28	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Pu-239/240	65	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Pu-239/240	0	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Pu-239/240	22.96	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Pu-239/240	0	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Pu-239/240	0.3	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Pu-239/240	0	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Pu-239/240	0	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Pu-239/240	0	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Pu-239/240	0	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Pu-239/240	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Pu-239/240	0	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Pu-239/240	0	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Pu-239/240	3.15	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Pu-239/240	2.77	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Pu-239/240	0	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Pu-239/240	1.35	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Pu-239/240	0	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Pu-239/240	0.68	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Pu-239/240	0.52	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Pu-239/240	1.68	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Pu-239/240	0.22	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-239/240	0.24	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Pu-239/240	26.83	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Pu-239/240	0.15	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Pu-239/240	0.48	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Pu-239/240	0	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Pu-239/240	0	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Pu-239/240	15.15	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Pu-239/240	0.78	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Pu-239/240	0.54	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Pu-239/240	0.47	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Pu-239/240	0.95	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Pu-239/240	0	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Pu-239/240	0.71	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Pu-239/240	0	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Pu-239/240	9.9	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Pu-239/240	0	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Pu-239/240	2.54	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Pu-239/240	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
586-F3-1	3022212.174	674125.327	0.5	Pu-239/240	0	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Pu-239/240	0.1	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Pu-239/240	0	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Pu-239/240	0.94	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Pu-239/240	0.98	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Pu-239/240	0.57	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Pu-239/240	0	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Pu-239/240	0.11	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Pu-239/240	1.21	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Pu-239/240	0.6	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Pu-239/240	0.81	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Pu-239/240	0.68	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Pu-239/240	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Pu-239/240	0.32	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Pu-239/240	0	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Pu-239/240	0.08	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Pu-239/240	0.02	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Pu-239/240	0.28	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Pu-239/240	0.28	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Pu-239/240	0.59	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Pu-239/240	0	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Pu-239/240	0	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Pu-239/240	0	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Pu-239/240	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Pu-239/240	0	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Pu-239/240	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Pu-239/240	0	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Pu-239/240	0	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Pu-239/240	0	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Pu-239/240	0	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Pu-239/240	0	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Pu-239/240	0	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Pu-239/240	0	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Pu-239/240	0	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Pu-239/240	0	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Pu-239/240	0	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Pu-239/240	0	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Pu-239/240	0	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Pu-239/240	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Pu-239/240	0	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Pu-239/240	0	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Pu-239/240	0.08	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Pu-239/240	0.03	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Pu-239/240	0.01	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Pu-239/240	0	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Pu-239/240	2.6	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Pu-239/240	0.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
174-B1-2	3022574.363	674286.5705	1.5	Pu-239/240	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Pu-239/240	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Pu-239/240	0	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Pu-239/240	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Pu-239/240	0	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Pu-239/240	0	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Pu-239/240	0	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Pu-239/240	0	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Pu-239/240	0	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Pu-239/240	0	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Pu-239/240	0	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Pu-239/240	0	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Pu-239/240	0	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Pu-239/240	0	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Pu-239/240	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Pu-239/240	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Pu-239/240	0	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Pu-239/240	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Pu-239/240	0	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Pu-239/240	0	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Pu-239/240	0	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Pu-239/240	0.06	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Pu-239/240	-0.16	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Pu-239/240	0.08	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Pu-239/240	0	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Pu-239/240	0.09	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Pu-239/240	0.4	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Pu-239/240	0	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Pu-239/240	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Pu-239/240	0	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Pu-239/240	0.64	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Pu-239/240	0	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Pu-239/240	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Pu-239/240	0	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Pu-239/240	0	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Pu-239/240	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Pu-239/240	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Pu-239/240	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Pu-239/240	0	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Pu-239/240	0	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Pu-239/240	0.03	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Pu-239/240	0.1	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Pu-239/240	0.61	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Pu-239/240	1	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Pu-239/240	-0.01	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Pu-239/240	3.42	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Pu-239/240	0.11	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
271-C2-2	3022310.439	674368.1087	1.5	Pu-239/240	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Pu-239/240	0	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Pu-239/240	0	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Pu-239/240	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Pu-239/240	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Pu-239/240	0	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Pu-239/240	0	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Pu-239/240	0	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Pu-239/240	0.02	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Pu-239/240	0	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Pu-239/240	0.06	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Pu-239/240	0.01	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Pu-239/240	0	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Pu-239/240	0	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Pu-239/240	0.38	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Pu-239/240	0.09	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Pu-239/240	0	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Pu-239/240	0	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Pu-239/240	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Pu-239/240	0	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Pu-239/240	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Pu-239/240	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Pu-239/240	0	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Pu-239/240	0	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Pu-239/240	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Pu-239/240	0	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Pu-239/240	0	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Pu-239/240	0	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Pu-239/240	0	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Pu-239/240	0.07	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Pu-239/240	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Pu-239/240	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Pu-239/240	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Pu-239/240	0	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Pu-239/240	0	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Pu-239/240	0	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Pu-239/240	0	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Pu-239/240	0.02	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Pu-239/240	0.38	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Pu-239/240	0.2	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Pu-239/240	0.47	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Pu-239/240	0.32	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Pu-239/240	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Pu-239/240	0.11	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Pu-239/240	0	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Pu-239/240	0	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Pu-239/240	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
389-I8-2	3022356.716	674233.813	1.5	Pu-239/240	0.09	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Pu-239/240	0.85	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Pu-239/240	0	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Pu-239/240	0.87	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Pu-239/240	0	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Pu-239/240	0.24	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Pu-239/240	0	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Pu-239/240	0	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Pu-239/240	0.42	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Pu-239/240	0.14	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Pu-239/240	0	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Pu-239/240	0	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Pu-239/240	15.65	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Pu-239/240	0	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Pu-239/240	0	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Pu-239/240	0	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Pu-239/240	0	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Pu-239/240	0	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Pu-239/240	0	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Pu-239/240	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Pu-239/240	0	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Pu-239/240	0	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Pu-239/240	0	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Pu-239/240	0	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Pu-239/240	0	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Pu-239/240	0	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Pu-239/240	0.32	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Pu-239/240	0	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Pu-239/240	0.3	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Pu-239/240	0	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Pu-239/240	0	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Pu-239/240	0.24	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Pu-239/240	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Pu-239/240	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Pu-239/240	4.6	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Pu-239/240	0	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Pu-239/240	0.86	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Pu-239/240	0.29	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Pu-239/240	0	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Pu-239/240	0	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Pu-239/240	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Pu-239/240	0	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Pu-239/240	6.64	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Pu-239/240	0	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Pu-239/240	0	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Pu-239/240	0.03	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Pu-239/240	1.39	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
585-C2-2	3022177.489	674139.3898	1.5	Pu-239/240	0	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Pu-239/240	0	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Pu-239/240	0	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Pu-239/240	0	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Pu-239/240	0	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Pu-239/240	0	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Pu-239/240	0.39	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Pu-239/240	0.52	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Pu-239/240	0	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Pu-239/240	0.54	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Pu-239/240	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Pu-239/240	0	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Pu-239/240	0.01	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Pu-239/240	0	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Pu-239/240	0	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Pu-239/240	0.68	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Pu-239/240	0	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Pu-239/240	0	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Pu-239/240	0	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Pu-239/240	0.19	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Pu-239/240	1.08	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Pu-239/240	0.14	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Pu-239/240	0.11	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Pu-239/240	0.18	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Pu-239/240	0	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Pu-239/240	0.49	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Pu-239/240	0	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Pu-239/240	0	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Pu-239/240	0	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Pu-239/240	0.04	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Pu-239/240	0.33	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Pu-239/240	0.44	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Pu-239/240	0	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Pu-239/240	0.26	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Pu-241	0	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Pu-241	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Pu-241	0	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Pu-241	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Pu-241	0	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Pu-241	0	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Pu-241	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Pu-241	0	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Pu-241	0	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Pu-241	0	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Pu-241	0	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Pu-241	0	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Pu-241	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
144-I8-1	3022704.769	674257.3027	0.5	Pu-241	0	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Pu-241	0	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Pu-241	0	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Pu-241	0	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Pu-241	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Pu-241	0	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Pu-241	0	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Pu-241	0	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Pu-241	0	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Pu-241	0	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Pu-241	0	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Pu-241	0	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Pu-241	0	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Pu-241	0.16	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Pu-241	0	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Pu-241	5.74	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Pu-241	0.13	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Pu-241	0	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Pu-241	0	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Pu-241	0	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Pu-241	0	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Pu-241	0	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Pu-241	0	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Pu-241	0	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Pu-241	0	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Pu-241	0	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Pu-241	0	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Pu-241	0	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Pu-241	0	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Pu-241	0	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Pu-241	0	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Pu-241	0	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Pu-241	0	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Pu-241	0	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Pu-241	0	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Pu-241	0	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Pu-241	0	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Pu-241	0	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Pu-241	0.38	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Pu-241	0.25	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Pu-241	0.07	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Pu-241	0.74	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Pu-241	0.1	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Pu-241	0.54	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Pu-241	0.15	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Pu-241	0	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Pu-241	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
210-J8-1	3022640.883	674227.6119	0.5	Pu-241	0	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Pu-241	0	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Pu-241	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Pu-241	0	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Pu-241	0	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Pu-241	0	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Pu-241	0	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Pu-241	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Pu-241	0	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Pu-241	0	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Pu-241	0	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Pu-241	0	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Pu-241	0.13	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Pu-241	3.61	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Pu-241	0.34	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Pu-241	0.1	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Pu-241	4.31	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Pu-241	0	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Pu-241	0.36	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Pu-241	0	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Pu-241	0	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Pu-241	0	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Pu-241	0	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Pu-241	0	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Pu-241	0	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Pu-241	0	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Pu-241	0	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Pu-241	0	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Pu-241	0	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Pu-241	0	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Pu-241	0	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Pu-241	0	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Pu-241	0.31	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Pu-241	6.3	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Pu-241	2.42	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Pu-241	0.2	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Pu-241	0.06	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Pu-241	0	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Pu-241	0	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Pu-241	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Pu-241	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Pu-241	0	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Pu-241	0	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Pu-241	0	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Pu-241	0	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Pu-241	0	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Pu-241	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
345-I8-1	3022272.16	674339.5272	0.5	Pu-241	24.1	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Pu-241	0	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Pu-241	0	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Pu-241	0	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Pu-241	0	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Pu-241	0	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Pu-241	0	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Pu-241	0	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Pu-241	0	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Pu-241	1.25	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Pu-241	0.15	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Pu-241	78.61	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Pu-241	21.32	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Pu-241	0.65	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Pu-241	0	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Pu-241	0	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Pu-241	0	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Pu-241	0	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Pu-241	0	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Pu-241	0	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Pu-241	0.27	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Pu-241	0.47	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Pu-241	1.31	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Pu-241	1.7	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Pu-241	10.95	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Pu-241	2.16	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Pu-241	0.57	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Pu-241	0.36	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Pu-241	0.23	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Pu-241	0.46	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Pu-241	1.47	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Pu-241	1.22	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Pu-241	0.97	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Pu-241	0.42	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Pu-241	20.14	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Pu-241	0	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Pu-241	0	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Pu-241	0	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Pu-241	0	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Pu-241	0	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Pu-241	0	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Pu-241	0	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Pu-241	0	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Pu-241	0	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Pu-241	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Pu-241	0	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Pu-241	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
505-I8-1	3022218.74	674215.2162	0.5	Pu-241	5.16	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Pu-241	4.54	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Pu-241	0	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Pu-241	2.21	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Pu-241	0	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Pu-241	1.12	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Pu-241	0.85	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Pu-241	2.76	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Pu-241	0.36	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-241	0.39	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Pu-241	44.01	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Pu-241	0.25	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Pu-241	0.79	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Pu-241	0	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Pu-241	0	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Pu-241	24.85	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Pu-241	1.28	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Pu-241	0.89	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Pu-241	0.77	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Pu-241	1.56	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Pu-241	0	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Pu-241	1.17	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Pu-241	0	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Pu-241	16.24	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Pu-241	0	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Pu-241	4.16	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Pu-241	0	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Pu-241	0	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Pu-241	0.16	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Pu-241	0	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Pu-241	1.54	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Pu-241	1.62	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Pu-241	0.94	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Pu-241	0	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Pu-241	0.18	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Pu-241	1.99	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Pu-241	0.99	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Pu-241	1.33	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Pu-241	1.12	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Pu-241	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Pu-241	0.52	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Pu-241	0	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Pu-241	0.14	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Pu-241	0.03	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Pu-241	0.45	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Pu-241	0.46	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Pu-241	0.96	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
667-J9-1	3022248.247	674031.816	0.5	Pu-241	0	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Pu-241	0	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Pu-241	0	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Pu-241	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Pu-241	0	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Pu-241	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Pu-241	0	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Pu-241	0	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Pu-241	0	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Pu-241	0	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Pu-241	0	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Pu-241	0	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Pu-241	0	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Pu-241	0	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Pu-241	0	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Pu-241	0	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Pu-241	0	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Pu-241	0	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Pu-241	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Pu-241	0	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Pu-241	0	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Pu-241	0	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Pu-241	0	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Pu-241	0.02	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Pu-241	0	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Pu-241	4.26	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Pu-241	0.17	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Pu-241	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Pu-241	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Pu-241	0	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Pu-241	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Pu-241	0	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Pu-241	0	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Pu-241	0	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Pu-241	0	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Pu-241	0	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Pu-241	0	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Pu-241	0	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Pu-241	0	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Pu-241	0	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Pu-241	0	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Pu-241	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Pu-241	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Pu-241	0	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Pu-241	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Pu-241	0	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Pu-241	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
205-C3-2	3022483.362	674318.8072	1.5	Pu-241	0	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Pu-241	0.09	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Pu-241	0	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Pu-241	0.13	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Pu-241	0	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Pu-241	0.14	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Pu-241	0.65	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Pu-241	0	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Pu-241	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Pu-241	0	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Pu-241	1.05	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Pu-241	0	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Pu-241	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Pu-241	0	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Pu-241	0	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Pu-241	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Pu-241	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Pu-241	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Pu-241	0	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Pu-241	0	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Pu-241	0	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Pu-241	0.16	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Pu-241	1	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Pu-241	1.64	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Pu-241	0	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Pu-241	5.61	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Pu-241	0.17	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Pu-241	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Pu-241	0	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Pu-241	0	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Pu-241	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Pu-241	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Pu-241	0	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Pu-241	0	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Pu-241	0	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Pu-241	0	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Pu-241	0	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Pu-241	0	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Pu-241	0	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Pu-241	0	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Pu-241	0	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Pu-241	0.63	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Pu-241	0.15	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Pu-241	0	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Pu-241	0	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Pu-241	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Pu-241	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
310-C2-2	3022342.776	674302.2007	1.5	Pu-241	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Pu-241	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Pu-241	0	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Pu-241	0	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Pu-241	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Pu-241	0	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Pu-241	0	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Pu-241	0	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Pu-241	0	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Pu-241	0.12	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Pu-241	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Pu-241	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Pu-241	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Pu-241	0	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Pu-241	0	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Pu-241	0	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Pu-241	0	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Pu-241	0.03	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Pu-241	0.62	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Pu-241	0.34	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Pu-241	0.76	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Pu-241	0.53	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Pu-241	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Pu-241	0	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Pu-241	0	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Pu-241	0	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Pu-241	0	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Pu-241	0.14	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Pu-241	1.4	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Pu-241	0	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Pu-241	1.42	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Pu-241	0	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Pu-241	0.4	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Pu-241	0	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Pu-241	0	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Pu-241	0.68	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Pu-241	0.23	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Pu-241	0	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Pu-241	0	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Pu-241	25.67	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Pu-241	0	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Pu-241	0	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Pu-241	0	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Pu-241	0	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Pu-241	0	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Pu-241	0	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Pu-241	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
468-I8-2	3022290.841	674201.5121	1.5	Pu-241	0	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Pu-241	0	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Pu-241	0	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Pu-241	0	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Pu-241	0	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Pu-241	0	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Pu-241	0.53	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Pu-241	0	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Pu-241	0.5	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Pu-241	0	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Pu-241	0	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Pu-241	0.39	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Pu-241	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Pu-241	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Pu-241	7.54	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Pu-241	0	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Pu-241	1.42	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Pu-241	0.47	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Pu-241	0	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Pu-241	0	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Pu-241	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Pu-241	0	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Pu-241	10.9	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Pu-241	0	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Pu-241	0	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Pu-241	0.05	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Pu-241	2.27	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Pu-241	0	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Pu-241	0	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Pu-241	0	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Pu-241	0	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Pu-241	0	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Pu-241	0	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Pu-241	0.64	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Pu-241	0.85	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Pu-241	0	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Pu-241	0.89	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Pu-241	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Pu-241	0	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Pu-241	0.02	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Pu-241	0	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Pu-241	0	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Pu-241	1.12	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Pu-241	0	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Pu-241	0	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Pu-241	0	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Pu-241	0.32	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
544-D5-3	3022181.083	674182.0341	2.5	Pu-241	1.77	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Pu-241	0.23	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Pu-241	0.17	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Pu-241	0.3	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Pu-241	0	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Pu-241	0.8	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Pu-241	0	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Pu-241	0	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Pu-241	0	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Pu-241	0.06	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Pu-241	0.55	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Pu-241	0.72	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Pu-241	0	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Pu-241	0.43	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Pu-242	0	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Pu-242	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Pu-242	0	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Pu-242	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Pu-242	0	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Pu-242	0	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Pu-242	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Pu-242	0	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Pu-242	0	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Pu-242	0	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Pu-242	0	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Pu-242	0	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Pu-242	0	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Pu-242	0	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Pu-242	0	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Pu-242	0	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Pu-242	0	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Pu-242	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Pu-242	0	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Pu-242	0	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Pu-242	0	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Pu-242	0	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Pu-242	0	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Pu-242	0	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Pu-242	0	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Pu-242	0	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Pu-242	0	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Pu-242	0	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Pu-242	0	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Pu-242	0	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Pu-242	0	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Pu-242	0	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
175-G8-1	3022628.691	674265.7863	0.5	Pu-242	0	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Pu-242	0	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Pu-242	0	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Pu-242	0	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Pu-242	0	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Pu-242	0	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Pu-242	0	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Pu-242	0	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Pu-242	0	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Pu-242	0	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Pu-242	0	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Pu-242	0	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Pu-242	0	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Pu-242	0	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Pu-242	0	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Pu-242	0	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Pu-242	0	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Pu-242	0	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Pu-242	0	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Pu-242	0	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Pu-242	0	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Pu-242	0	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Pu-242	0	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Pu-242	0	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Pu-242	0	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Pu-242	0	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Pu-242	0	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Pu-242	0	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Pu-242	0	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Pu-242	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Pu-242	0	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Pu-242	0	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Pu-242	0	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Pu-242	0	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Pu-242	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Pu-242	0	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Pu-242	0	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Pu-242	0	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Pu-242	0	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Pu-242	0	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Pu-242	0	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Pu-242	0	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Pu-242	0	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Pu-242	0	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Pu-242	0	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Pu-242	0	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
271-I8-1	3022338.034	674371.8281	0.5	Pu-242	0	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Pu-242	0	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Pu-242	0	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Pu-242	0	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Pu-242	0	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Pu-242	0	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Pu-242	0	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Pu-242	0	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Pu-242	0	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Pu-242	0	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Pu-242	0	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Pu-242	0	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Pu-242	0	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Pu-242	0	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Pu-242	0	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Pu-242	0	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Pu-242	0	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Pu-242	0	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Pu-242	0	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Pu-242	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Pu-242	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Pu-242	0	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Pu-242	0	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Pu-242	0	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Pu-242	0	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Pu-242	0	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Pu-242	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Pu-242	0	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Pu-242	0	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Pu-242	0	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Pu-242	0	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Pu-242	0	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Pu-242	0	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Pu-242	0	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Pu-242	0	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Pu-242	0	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Pu-242	0	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Pu-242	0	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Pu-242	0	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Pu-242	0	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Pu-242	0	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Pu-242	0	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Pu-242	0	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Pu-242	0	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Pu-242	0	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Pu-242	0	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
389-I8-1	3022356.716	674233.813	0.5	Pu-242	0	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Pu-242	0	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Pu-242	0	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Pu-242	0	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Pu-242	0	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Pu-242	0	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Pu-242	0	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Pu-242	0	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Pu-242	0	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Pu-242	0	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Pu-242	0	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Pu-242	0	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Pu-242	0	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Pu-242	0	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Pu-242	0	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Pu-242	0	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Pu-242	0	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Pu-242	0	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Pu-242	0	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Pu-242	0	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Pu-242	0	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Pu-242	0	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Pu-242	0	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Pu-242	0	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Pu-242	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Pu-242	0	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Pu-242	0	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Pu-242	0	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Pu-242	0	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Pu-242	0	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Pu-242	0	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Pu-242	0	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Pu-242	0	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Pu-242	0	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Pu-242	0	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Pu-242	0	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Pu-242	0	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Pu-242	0	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Pu-242	0	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Pu-242	0	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Pu-242	0	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Pu-242	0	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Pu-242	0	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Pu-242	0	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Pu-242	0	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Pu-242	0	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
549-C5-1	3022309.643	674079.9087	0.5	Pu-242	0	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Pu-242	0	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Pu-242	0	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Pu-242	0	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Pu-242	0	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Pu-242	0	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Pu-242	0	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Pu-242	0	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Pu-242	0	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Pu-242	0	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Pu-242	0	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Pu-242	0	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Pu-242	0	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Pu-242	0	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Pu-242	0	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Pu-242	0	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Pu-242	0	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Pu-242	0	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Pu-242	0	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Pu-242	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Pu-242	0	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Pu-242	0	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Pu-242	0	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Pu-242	0	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Pu-242	0	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Pu-242	0	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Pu-242	0	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Pu-242	0	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Pu-242	0	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Pu-242	0	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Pu-242	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Pu-242	0	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Pu-242	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Pu-242	0	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Pu-242	0	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Pu-242	0	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Pu-242	0	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Pu-242	0	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Pu-242	0	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Pu-242	0	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Pu-242	0	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Pu-242	0	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Pu-242	0	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Pu-242	0	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Pu-242	0	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Pu-242	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
170-C2-2	3022474.524	674366.8025	1.5	Pu-242	0	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Pu-242	0	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Pu-242	0	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Pu-242	0	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Pu-242	0	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Pu-242	0	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Pu-242	0	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Pu-242	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Pu-242	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Pu-242	0	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Pu-242	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Pu-242	0	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Pu-242	0	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Pu-242	0	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Pu-242	0	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Pu-242	0	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Pu-242	0	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Pu-242	0	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Pu-242	0	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Pu-242	0	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Pu-242	0	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Pu-242	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Pu-242	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Pu-242	0	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Pu-242	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Pu-242	0	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Pu-242	0	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Pu-242	0	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Pu-242	0	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Pu-242	0	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Pu-242	0	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Pu-242	0	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Pu-242	0	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Pu-242	0	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Pu-242	0	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Pu-242	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Pu-242	0	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Pu-242	0	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Pu-242	0	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Pu-242	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Pu-242	0	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Pu-242	0	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Pu-242	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Pu-242	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Pu-242	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Pu-242	0	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
239-I8-2	3022462.355	674318.3179	1.5	Pu-242	0	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Pu-242	0	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Pu-242	0	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Pu-242	0	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Pu-242	0	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Pu-242	0	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Pu-242	0	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Pu-242	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Pu-242	0	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Pu-242	0	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Pu-242	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Pu-242	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Pu-242	0	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Pu-242	0	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Pu-242	0	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Pu-242	0	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Pu-242	0	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Pu-242	0	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Pu-242	0	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Pu-242	0	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Pu-242	0	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Pu-242	0	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Pu-242	0	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Pu-242	0	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Pu-242	0	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Pu-242	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Pu-242	0	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Pu-242	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Pu-242	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Pu-242	0	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Pu-242	0	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Pu-242	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Pu-242	0	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Pu-242	0	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Pu-242	0	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Pu-242	0	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Pu-242	0	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Pu-242	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Pu-242	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Pu-242	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Pu-242	0	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Pu-242	0	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Pu-242	0	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Pu-242	0	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Pu-242	0	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Pu-242	0	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
386-C2-2	3022250.792	674289.8028	1.5	Pu-242	0	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Pu-242	0	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Pu-242	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Pu-242	0	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Pu-242	0	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Pu-242	0	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Pu-242	0	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Pu-242	0	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Pu-242	0	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Pu-242	0	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Pu-242	0	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Pu-242	0	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Pu-242	0	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Pu-242	0	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Pu-242	0	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Pu-242	0	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Pu-242	0	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Pu-242	0	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Pu-242	0	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Pu-242	0	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Pu-242	0	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Pu-242	0	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Pu-242	0	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Pu-242	0	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Pu-242	0	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Pu-242	0	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Pu-242	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Pu-242	0	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Pu-242	0	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Pu-242	0	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Pu-242	0	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Pu-242	0	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Pu-242	0	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Pu-242	0	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Pu-242	0	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Pu-242	0	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Pu-242	0	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Pu-242	0	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Pu-242	0	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Pu-242	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Pu-242	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Pu-242	0	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Pu-242	0	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Pu-242	0	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Pu-242	0	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Pu-242	0	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
547-D1-2	3022248.968	674130.2862	1.5	Pu-242	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Pu-242	0	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Pu-242	0	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Pu-242	0	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Pu-242	0	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Pu-242	0	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Pu-242	0	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Pu-242	0	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Pu-242	0	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Pu-242	0	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Pu-242	0	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Pu-242	0	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Pu-242	0	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Pu-242	0	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Pu-242	0	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Pu-242	0	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Pu-242	0	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Pu-242	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Pu-242	0	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Pu-242	0	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Pu-242	0	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Pu-242	0	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Pu-242	0	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Pu-242	0	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Pu-242	0	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Pu-242	0	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Pu-242	0	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Pu-242	0	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Pu-242	0	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Pu-242	0	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Pu-242	0	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Pu-242	0	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Pu-242	0	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Pu-242	0	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Pu-242	0	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Pu-242	0	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Pu-242	0	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Pu-242	0	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Pu-242	0	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Pu-242	0	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Pu-242	0	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Tc-99	0	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Tc-99	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Tc-99	0	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Tc-99	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Tc-99	0	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Tc-99	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
116-D1-1	3022414.891	674204.6736	0.5	Tc-99	-0.4	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Tc-99	0	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Tc-99	1	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Tc-99	0	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Tc-99	0	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Tc-99	0.8	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Tc-99	0.1	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Tc-99	0	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Tc-99	0	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Tc-99	0	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Tc-99	0	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Tc-99	0	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Tc-99	0	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Tc-99	0	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Tc-99	0	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Tc-99	0	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Tc-99	0	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Tc-99	1.2	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Tc-99	0	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Tc-99	0	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Tc-99	1.6	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Tc-99	1.9	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Tc-99	2.7	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Tc-99	1.9	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Tc-99	0	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Tc-99	0	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Tc-99	0	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Tc-99	-0.5	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Tc-99	0	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Tc-99	0	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Tc-99	0	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Tc-99	-0.5	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Tc-99	0	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Tc-99	0	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Tc-99	0	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Tc-99	1.3	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Tc-99	0	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Tc-99	0	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Tc-99	0	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Tc-99	0	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Tc-99	0	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Tc-99	0.5	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Tc-99	0	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Tc-99	0.4	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Tc-99	0	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Tc-99	0.9	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Tc-99	2.1	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
206-C2-1	3022506.861	674300.8945	0.5	Tc-99	1.2	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Tc-99	2.1	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Tc-99	4	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Tc-99	1.1	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Tc-99	1.5	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Tc-99	0	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Tc-99	0	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Tc-99	0	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Tc-99	1.6	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Tc-99	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Tc-99	0	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Tc-99	0	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Tc-99	0.5	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Tc-99	0	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Tc-99	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Tc-99	0	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Tc-99	0	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Tc-99	0	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Tc-99	0	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Tc-99	1.6	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Tc-99	0.7	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Tc-99	2.1	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Tc-99	1.5	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Tc-99	2.6	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Tc-99	-0.8	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Tc-99	0	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Tc-99	0	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Tc-99	0.6	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Tc-99	0.3	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Tc-99	0	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Tc-99	0	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Tc-99	0	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Tc-99	1.8	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Tc-99	0	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Tc-99	0	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Tc-99	0	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Tc-99	0.2	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Tc-99	0	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Tc-99	0	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Tc-99	4.1	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Tc-99	3.7	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Tc-99	2.1	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Tc-99	1.5	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Tc-99	2.1	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Tc-99	0	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Tc-99	-1.4	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Tc-99	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
310-E8-1	3022362.418	674295.4792	0.5	Tc-99	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Tc-99	0	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Tc-99	-0.1	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Tc-99	0	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Tc-99	0	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Tc-99	0	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Tc-99	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Tc-99	0	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Tc-99	1.4	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Tc-99	1.5	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Tc-99	0	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Tc-99	0	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Tc-99	0	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Tc-99	0	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Tc-99	0	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Tc-99	0	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Tc-99	1.9	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Tc-99	0.2	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Tc-99	9.2	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Tc-99	0.8	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Tc-99	2	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Tc-99	1.6	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Tc-99	0	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Tc-99	0.4	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Tc-99	0	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Tc-99	0.4	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Tc-99	1.8	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Tc-99	0.3	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Tc-99	1.8	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Tc-99	1.8	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Tc-99	1.9	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Tc-99	2.1	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Tc-99	1.8	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Tc-99	1.4	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Tc-99	0.7	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Tc-99	2.1	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Tc-99	1.8	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Tc-99	1.9	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Tc-99	-0.7	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Tc-99	2.1	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Tc-99	1.8	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Tc-99	3.9	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Tc-99	5.7	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Tc-99	8.3	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Tc-99	0.8	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Tc-99	0	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Tc-99	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
468-F2-1	3022269.211	674205.6233	0.5	Tc-99	0	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Tc-99	0	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Tc-99	1.3	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Tc-99	0.1	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Tc-99	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Tc-99	0	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Tc-99	0	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Tc-99	0.8	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Tc-99	1	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Tc-99	1	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Tc-99	0	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Tc-99	3.2	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Tc-99	2.7	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Tc-99	1.8	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Tc-99	2.4	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Tc-99	2	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Tc-99	1.4	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Tc-99	8.6	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Tc-99	1.1	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Tc-99	0.5	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Tc-99	0	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Tc-99	3.5	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Tc-99	3.2	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Tc-99	2.7	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Tc-99	3	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Tc-99	1.4	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Tc-99	0	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Tc-99	2	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Tc-99	1.3	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Tc-99	0	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Tc-99	6	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Tc-99	1.7	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Tc-99	4.8	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Tc-99	1.5	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Tc-99	2.3	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Tc-99	0	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Tc-99	0	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Tc-99	0.3	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Tc-99	1.9	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Tc-99	2	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Tc-99	1.6	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Tc-99	1.9	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Tc-99	0.4	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Tc-99	2.1	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Tc-99	1.9	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Tc-99	0	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Tc-99	0.8	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
627-I8-1	3022237.421	674077.2011	0.5	Tc-99	0	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Tc-99	1.6	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Tc-99	1.8	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Tc-99	2.2	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Tc-99	2.3	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Tc-99	0	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Tc-99	2	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Tc-99	0	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Tc-99	0.3	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Tc-99	0.8	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Tc-99	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Tc-99	-0.2	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Tc-99	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Tc-99	0	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Tc-99	-1.2	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Tc-99	0	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Tc-99	0	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Tc-99	0	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Tc-99	0	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Tc-99	0	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Tc-99	-0.1	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Tc-99	0	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Tc-99	0	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Tc-99	0	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Tc-99	0	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Tc-99	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Tc-99	0	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Tc-99	0	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Tc-99	-1.5	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Tc-99	0	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Tc-99	1	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Tc-99	1.4	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Tc-99	2.1	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Tc-99	1.5	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Tc-99	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Tc-99	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Tc-99	0	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Tc-99	-0.5	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Tc-99	0	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Tc-99	0	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Tc-99	0	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Tc-99	0.5	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Tc-99	0	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Tc-99	0	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Tc-99	0	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Tc-99	0.1	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Tc-99	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
201-I8-2	3022403.908	674404.129	1.5	Tc-99	0.6	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Tc-99	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Tc-99	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Tc-99	-0.1	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Tc-99	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Tc-99	-0.3	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Tc-99	0	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Tc-99	1.7	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Tc-99	1.9	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Tc-99	1.2	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Tc-99	1.5	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Tc-99	2.2	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Tc-99	0.7	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Tc-99	1.4	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Tc-99	0	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Tc-99	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Tc-99	0	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Tc-99	1.1	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Tc-99	0	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Tc-99	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Tc-99	0	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Tc-99	0	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Tc-99	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Tc-99	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Tc-99	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Tc-99	0	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Tc-99	0	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Tc-99	0	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Tc-99	0	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Tc-99	0.5	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Tc-99	1.6	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Tc-99	2	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Tc-99	4.1	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Tc-99	0.3	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Tc-99	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Tc-99	-0.9	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Tc-99	-0.8	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Tc-99	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Tc-99	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Tc-99	0	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Tc-99	0.2	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Tc-99	0	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Tc-99	0	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Tc-99	0	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Tc-99	0.9	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Tc-99	0	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Tc-99	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
278-F5-2	3022584.545	674250.5502	1.5	Tc-99	3.8	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Tc-99	1.9	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Tc-99	1.8	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Tc-99	1.6	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Tc-99	1.4	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Tc-99	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Tc-99	-0.4	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Tc-99	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Tc-99	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Tc-99	-0.1	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Tc-99	0	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Tc-99	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Tc-99	0	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Tc-99	0	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Tc-99	-0.5	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Tc-99	1.1	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Tc-99	0	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Tc-99	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Tc-99	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Tc-99	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Tc-99	0	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Tc-99	0	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Tc-99	0	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Tc-99	1.4	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Tc-99	-0.7	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Tc-99	2.7	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Tc-99	-1.4	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Tc-99	1.3	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Tc-99	0	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Tc-99	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Tc-99	1.3	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Tc-99	0	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Tc-99	-0.7	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Tc-99	1.9	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Tc-99	0.2	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Tc-99	2.4	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Tc-99	1.8	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Tc-99	0	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Tc-99	0.8	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Tc-99	0	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Tc-99	-0.1	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Tc-99	1.4	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Tc-99	1.4	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Tc-99	1.5	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Tc-99	0	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Tc-99	1.3	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Tc-99	4.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
430-I8-2	3022362.943	674187.808	1.5	Tc-99	2.2	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Tc-99	1.6	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Tc-99	0.4	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Tc-99	0	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Tc-99	0	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Tc-99	0	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Tc-99	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Tc-99	0	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Tc-99	0.2	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Tc-99	0	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Tc-99	0	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Tc-99	0	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Tc-99	0	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Tc-99	0.3	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Tc-99	0	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Tc-99	0	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Tc-99	0.8	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Tc-99	1.5	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Tc-99	1	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Tc-99	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Tc-99	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Tc-99	0.6	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Tc-99	0.5	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Tc-99	0.3	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Tc-99	1.3	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Tc-99	1.6	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Tc-99	1.2	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Tc-99	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Tc-99	1.5	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Tc-99	2.9	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Tc-99	1.2	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Tc-99	0.7	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Tc-99	0.4	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Tc-99	3.3	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Tc-99	1.5	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Tc-99	1.3	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Tc-99	2	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Tc-99	0	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Tc-99	1.5	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Tc-99	1.5	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Tc-99	1	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Tc-99	0	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Tc-99	1.1	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Tc-99	2.9	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Tc-99	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Tc-99	0	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Tc-99	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
202-C2-3	3022402.423	674380.5066	2.5	Tc-99	0	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Tc-99	0	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Tc-99	1.5	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Tc-99	0	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Tc-99	0	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Tc-99	0	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Tc-99	1.1	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Tc-99	1.4	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Tc-99	0	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Tc-99	1.7	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Tc-99	0.9	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Tc-99	1.3	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Tc-99	1.1	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Tc-99	0	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Tc-99	0	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Tc-99	1.2	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Tc-99	0	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Tc-99	0.9	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Tc-99	1.3	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Tc-99	1.4	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Tc-99	0.9	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	Th-230	1.7	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Th-230	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Th-230	0.6	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Th-230	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Th-230	0.6	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Th-230	0.5	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Th-230	0.7	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Th-230	2.7	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Th-230	0.8	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Th-230	0.5	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Th-230	1	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Th-230	0.7	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Th-230	1	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Th-230	0.2	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Th-230	1.3	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Th-230	0.7	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Th-230	0.7	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Th-230	0.5	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Th-230	0.6	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Th-230	0.4	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Th-230	0.5	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Th-230	0.5	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Th-230	1.6	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Th-230	0.2	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Th-230	1	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Th-230	0.6	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
172-C2-1	3022526.743	674326.9965	0.5	Th-230	0.5	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Th-230	0.5	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Th-230	1.5	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Th-230	1.1	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Th-230	0.8	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Th-230	0.8	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Th-230	0.6	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Th-230	0.7	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Th-230	1	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Th-230	0.2	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Th-230	1.4	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Th-230	1	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Th-230	0.6	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Th-230	1.2	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Th-230	2.5	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Th-230	1.6	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Th-230	0.8	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Th-230	1.1	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Th-230	1.1	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	Th-230	0.5	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Th-230	0.7	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Th-230	1.9	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Th-230	0.6	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Th-230	0.7	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Th-230	0.9	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Th-230	0.4	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Th-230	1.5	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Th-230	0.3	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Th-230	0.8	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Th-230	9	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Th-230	0.8	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Th-230	0.8	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Th-230	1.2	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Th-230	1.3	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Th-230	0.8	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Th-230	0.6	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Th-230	0.4	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Th-230	0.7	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Th-230	1	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Th-230	0.5	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Th-230	0.6	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Th-230	0	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Th-230	0.4	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Th-230	0.5	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Th-230	0.9	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Th-230	0.5	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Th-230	0.5	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
240-I8-1	3022488.464	674298.4149	0.5	Th-230	1.5	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Th-230	1.2	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Th-230	1.3	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Th-230	1.2	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Th-230	0.5	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Th-230	0.3	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Th-230	0.4	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Th-230	1	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Th-230	0.6	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Th-230	0.3	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Th-230	1.6	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Th-230	0.8	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Th-230	1.3	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Th-230	1.2	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Th-230	0.8	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Th-230	1.1	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Th-230	1.7	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Th-230	1.1	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Th-230	0.7	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	Th-230	2	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Th-230	1.5	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Th-230	0.6	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Th-230	0.5	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Th-230	0.7	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Th-230	0.9	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Th-230	0.7	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Th-230	0.4	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Th-230	0	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Th-230	0.5	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Th-230	0.5	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Th-230	0.5	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Th-230	1.2	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Th-230	0.8	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Th-230	0.5	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Th-230	2.1	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Th-230	0.5	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Th-230	0.9	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Th-230	0.9	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Th-230	0.3	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Th-230	0.4	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Th-230	1	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Th-230	0.5	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Th-230	0.8	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Th-230	0.6	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Th-230	0.5	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Th-230	5.4	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Th-230	1.6	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
386-C2-1	3022250.792	674289.8028	0.5	Th-230	0.7	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Th-230	0.7	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Th-230	0.6	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Th-230	0.6	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Th-230	1	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Th-230	1.1	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Th-230	0.9	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Th-230	1	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Th-230	1	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Th-230	1	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Th-230	0.9	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Th-230	1.8	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Th-230	0.9	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Th-230	0.4	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Th-230	1	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Th-230	1	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Th-230	1	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Th-230	1	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Th-230	1.5	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	Th-230	0.9	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Th-230	0.8	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Th-230	2.5	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Th-230	3.2	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Th-230	4.9	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Th-230	3.3	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Th-230	2.1	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Th-230	1.3	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Th-230	0.9	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Th-230	0.7	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Th-230	0.9	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Th-230	0.9	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Th-230	1.4	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Th-230	1	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Th-230	0.9	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Th-230	1.5	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Th-230	1	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Th-230	1	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Th-230	1	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Th-230	1.2	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Th-230	1.9	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Th-230	1	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Th-230	0.9	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Th-230	1	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Th-230	0.8	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Th-230	4.8	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Th-230	1.3	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Th-230	1.3	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
545-I8-1	3022224.967	674169.2111	0.5	Th-230	0.5	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Th-230	0.7	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Th-230	2.1	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Th-230	0.9	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Th-230	1.2	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Th-230	1.2	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Th-230	0.8	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Th-230	0.5	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Th-230	0.8	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Th-230	1.1	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Th-230	2.9	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Th-230	0.8	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Th-230	3.2	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Th-230	0.8	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Th-230	0.8	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Th-230	1.1	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Th-230	0.8	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Th-230	1.4	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Th-230	1	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	Th-230	1.1	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Th-230	0.4	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Th-230	0.9	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Th-230	0.8	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Th-230	1.7	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Th-230	0.8	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Th-230	1	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Th-230	0.6	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Th-230	1.1	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Th-230	0.6	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Th-230	0.8	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Th-230	1.4	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Th-230	1.1	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Th-230	0.8	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Th-230	0.9	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Th-230	1.4	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Th-230	2.3	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Th-230	0.5	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Th-230	0.7	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Th-230	0.6	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Th-230	0.3	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Th-230	0.2	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Th-230	0.8	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Th-230	0.9	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Th-230	0.9	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Th-230	0.8	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Th-230	0.9	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Th-230	0.9	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
144-C2-2	3022677.174	674253.5833	1.5	Th-230	0.8	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Th-230	0.6	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Th-230	0.9	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Th-230	1	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Th-230	0.7	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Th-230	0.8	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Th-230	0.6	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Th-230	0.4	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Th-230	1.1	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Th-230	0.6	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Th-230	0.6	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Th-230	0.6	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Th-230	1.6	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Th-230	0.1	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Th-230	0.4	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Th-230	0.8	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Th-230	0.6	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Th-230	0.6	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Th-230	0.5	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	Th-230	0.7	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Th-230	0.8	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Th-230	0.3	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Th-230	0.7	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Th-230	0.6	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Th-230	0.6	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Th-230	0.6	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Th-230	0.4	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Th-230	0.7	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Th-230	0.7	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Th-230	0.7	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Th-230	0.5	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Th-230	0.4	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Th-230	0.3	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Th-230	0.5	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Th-230	0.6	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Th-230	0.4	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Th-230	0.7	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Th-230	0.6	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Th-230	1	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Th-230	1.5	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Th-230	0.2	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Th-230	0.9	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Th-230	0.5	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Th-230	1	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Th-230	0.5	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Th-230	0.9	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Th-230	0.8	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
236-C1-2	3022353.82	674376.298	1.5	Th-230	0.5	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Th-230	0.8	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Th-230	0	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Th-230	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Th-230	0.6	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Th-230	0.4	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Th-230	0.5	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Th-230	0.6	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Th-230	0.5	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Th-230	0.7	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Th-230	1	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Th-230	1.3	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Th-230	1.5	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Th-230	0.3	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Th-230	0.4	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Th-230	0.5	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Th-230	0.4	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Th-230	0.4	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Th-230	0.3	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	Th-230	0.2	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Th-230	0.9	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Th-230	0.2	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Th-230	0.9	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Th-230	0.9	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Th-230	0.6	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Th-230	0.6	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Th-230	0.6	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Th-230	2.9	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Th-230	1	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Th-230	0.5	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Th-230	0.5	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Th-230	0.3	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Th-230	0.5	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Th-230	0.6	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Th-230	0.4	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Th-230	0.4	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Th-230	0.7	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Th-230	0.8	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Th-230	0.3	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Th-230	0.8	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Th-230	0.6	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Th-230	0.6	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Th-230	0.3	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Th-230	0.3	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Th-230	0.7	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Th-230	0.2	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Th-230	0.3	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
348-I4-2	3022340.044	674287.7793	1.5	Th-230	0.5	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Th-230	0.4	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Th-230	0.6	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Th-230	0.5	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Th-230	0.6	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Th-230	0.9	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Th-230	0.4	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Th-230	0.3	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Th-230	0.4	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Th-230	0.2	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Th-230	0.9	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Th-230	0.6	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Th-230	0.6	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Th-230	0.7	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Th-230	0.9	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Th-230	0.9	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Th-230	0.9	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Th-230	0.3	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Th-230	0.4	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	Th-230	0.3	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Th-230	0.2	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Th-230	0.5	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Th-230	0.6	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Th-230	0.1	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Th-230	0.4	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Th-230	0.5	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Th-230	2.2	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Th-230	0.5	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Th-230	0.8	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Th-230	0.5	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Th-230	0.7	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Th-230	1	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Th-230	0.6	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Th-230	0.1	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Th-230	0.4	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Th-230	0.3	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Th-230	0.7	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Th-230	0.6	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Th-230	0.9	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Th-230	0.4	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Th-230	0.5	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Th-230	0.7	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Th-230	0.6	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Th-230	0.8	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Th-230	0.3	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Th-230	0.6	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Th-230	0.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
510-C5-2	3022329.525	674106.0107	1.5	Th-230	0.7	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Th-230	0.9	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Th-230	0.7	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Th-230	0.7	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Th-230	0.7	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Th-230	0.7	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Th-230	0.8	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Th-230	0.4	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Th-230	0.6	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Th-230	1.4	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Th-230	0.6	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Th-230	0.6	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Th-230	0.6	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Th-230	1.3	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Th-230	0.5	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Th-230	0.8	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Th-230	0.8	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Th-230	0.7	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Th-230	0.7	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	Th-230	0.4	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Th-230	0.6	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Th-230	0.5	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Th-230	1	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Th-230	1.3	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Th-230	0.4	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Th-230	0.6	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Th-230	0.6	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Th-230	0.4	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Th-230	0.4	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Th-230	0.3	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Th-230	0.7	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Th-230	0.7	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Th-230	0.7	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Th-230	0.4	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Th-230	0.7	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Th-230	0.5	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Th-230	0.7	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Th-230	0.5	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Th-230	0.4	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Th-230	0.3	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Th-230	0.3	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Th-230	0.4	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Th-230	1.2	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Th-230	0.9	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Th-230	0.5	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Th-230	0.6	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Th-230	0.5	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
234-I7-4	3022329.196	674419.8234	3.5	Th-230	0.9	pCi/g	Pre
1706	3022232.292	674322.5128	0	Th-232	5.2	pCi/g	Post
113-D5-1	3022706.877	674276.3246	0.5	Th-232	2.9	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	Th-232	0	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	Th-232	0.9	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	Th-232	0	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	Th-232	0.9	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	Th-232	0.7	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	Th-232	1	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	Th-232	3.1	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	Th-232	1.3	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	Th-232	0.7	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	Th-232	1.6	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	Th-232	1.1	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	Th-232	1.7	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	Th-232	0.3	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	Th-232	2.1	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	Th-232	1	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	Th-232	1.1	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	Th-232	0.8	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	Th-232	1	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	Th-232	0.5	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	Th-232	0.8	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	Th-232	0.7	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	Th-232	0.7	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	Th-232	1.5	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	Th-232	1.4	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	Th-232	0.9	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	Th-232	0.8	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	Th-232	0.7	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	Th-232	1.7	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	Th-232	1.8	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	Th-232	1.3	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	Th-232	1.2	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	Th-232	0.9	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	Th-232	1.1	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	Th-232	1.6	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	Th-232	0.3	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	Th-232	2.1	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	Th-232	1.6	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	Th-232	0.9	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	Th-232	1.9	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	Th-232	4.4	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	Th-232	2	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	Th-232	0.9	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	Th-232	1.7	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	Th-232	1.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
202-C2-1	3022402.423	674380.5066	0.5	Th-232	0.8	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	Th-232	1.2	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	Th-232	2.3	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	Th-232	1	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	Th-232	1	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	Th-232	1.4	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	Th-232	0.8	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	Th-232	1.9	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	Th-232	0.4	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	Th-232	0.9	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	Th-232	7.6	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	Th-232	1.4	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	Th-232	1.3	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	Th-232	2	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	Th-232	2.2	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	Th-232	1.2	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	Th-232	0.9	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	Th-232	0.6	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	Th-232	1.1	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	Th-232	1.6	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	Th-232	0.7	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	Th-232	0.9	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	Th-232	-0.2	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	Th-232	0.5	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	Th-232	0.8	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	Th-232	1.4	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	Th-232	1.1	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	Th-232	0.4	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	Th-232	1.6	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	Th-232	1.4	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	Th-232	0.7	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	Th-232	1.9	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	Th-232	0.7	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	Th-232	0.4	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	Th-232	0.7	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	Th-232	1.2	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	Th-232	0.9	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	Th-232	0.4	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	Th-232	1.5	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	Th-232	1.2	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	Th-232	2.1	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	Th-232	2	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	Th-232	0.7	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	Th-232	1.2	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	Th-232	1.2	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	Th-232	0.7	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	Th-232	1.1	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
278-F5-1	3022584.545	674250.5502	0.5	Th-232	6.8	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	Th-232	2.5	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	Th-232	0.9	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	Th-232	0.8	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	Th-232	1.1	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	Th-232	1.4	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	Th-232	1	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	Th-232	0.6	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	Th-232	-0.3	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	Th-232	0.7	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	Th-232	0.8	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	Th-232	0.8	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	Th-232	1.5	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	Th-232	1.3	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	Th-232	0.7	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	Th-232	3.1	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	Th-232	0.7	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	Th-232	1.4	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	Th-232	1.3	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	Th-232	0.4	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	Th-232	0.6	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	Th-232	0.8	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	Th-232	0.7	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	Th-232	1.3	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	Th-232	1	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	Th-232	0.8	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	Th-232	11.4	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	Th-232	2.7	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	Th-232	1.2	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	Th-232	1.1	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	Th-232	1	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	Th-232	0.9	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	Th-232	1.7	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	Th-232	1.8	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	Th-232	1.1	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	Th-232	1.6	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	Th-232	1.7	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	Th-232	1.7	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	Th-232	1.5	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	Th-232	3.2	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	Th-232	1.5	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	Th-232	0.6	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	Th-232	1.6	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	Th-232	1.7	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	Th-232	1.6	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	Th-232	1.6	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	Th-232	2.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
429-I8-1	3022336.833	674207.711	0.5	Th-232	1.5	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	Th-232	1.2	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	Th-232	4.2	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	Th-232	5.8	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	Th-232	9.3	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	Th-232	6.2	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	Th-232	3.7	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	Th-232	1.4	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	Th-232	1.4	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	Th-232	1.1	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	Th-232	1.4	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	Th-232	1.4	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	Th-232	2.3	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	Th-232	1.7	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	Th-232	1.4	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	Th-232	2	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	Th-232	1.6	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	Th-232	1.5	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	Th-232	1.7	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	Th-232	2	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	Th-232	3.3	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	Th-232	1.6	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	Th-232	1.5	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	Th-232	1.7	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	Th-232	1.2	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	Th-232	9.2	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	Th-232	2.2	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	Th-232	2.1	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	Th-232	0.8	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	Th-232	1	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	Th-232	3.5	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	Th-232	1.4	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	Th-232	1.9	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	Th-232	1.9	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	Th-232	1.2	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	Th-232	0.8	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	Th-232	1.3	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	Th-232	1.7	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	Th-232	5.3	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	Th-232	1.3	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	Th-232	8.3	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	Th-232	1.2	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	Th-232	1.2	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	Th-232	1.8	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	Th-232	1.2	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	Th-232	2.3	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	Th-232	1.6	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
588-I8-1	3022283.413	674083.4	0.5	Th-232	1.7	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	Th-232	0.5	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	Th-232	1.4	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	Th-232	1.3	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	Th-232	2.9	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	Th-232	1.3	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	Th-232	1.6	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	Th-232	0.9	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	Th-232	1.7	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	Th-232	0.9	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	Th-232	1.2	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	Th-232	2.4	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	Th-232	1.8	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	Th-232	1.2	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	Th-232	1.4	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	Th-232	2.3	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	Th-232	4.1	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	Th-232	0.8	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	Th-232	1.1	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	Th-232	0.8	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	Th-232	0.5	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	Th-232	0.3	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	Th-232	1.3	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	Th-232	1.5	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	Th-232	1.4	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	Th-232	1.3	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	Th-232	1.4	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	Th-232	1.4	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	Th-232	1.3	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	Th-232	1	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	Th-232	1.4	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	Th-232	1.5	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	Th-232	1.1	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	Th-232	1.2	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	Th-232	0.9	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	Th-232	0.5	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	Th-232	0.7	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	Th-232	0.6	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	Th-232	0.7	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	Th-232	1	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	Th-232	1.4	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	Th-232	0.1	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	Th-232	0.6	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	Th-232	1.2	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	Th-232	1	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	Th-232	0.9	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	Th-232	0.8	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
176-J9-2	3022663.376	674251.7236	1.5	Th-232	1	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	Th-232	1.3	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	Th-232	0.4	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	Th-232	1	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	Th-232	1	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	Th-232	0.9	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	Th-232	0.8	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	Th-232	0.6	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	Th-232	1	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	Th-232	1.1	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	Th-232	1.1	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	Th-232	0.8	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	Th-232	0.5	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	Th-232	0.4	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	Th-232	0.8	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	Th-232	0.4	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	Th-232	0.6	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	Th-232	0.8	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	Th-232	0.9	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	Th-232	1.6	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	Th-232	0.7	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	Th-232	0.2	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	Th-232	1.5	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	Th-232	0.7	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	Th-232	1.7	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	Th-232	0.7	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	Th-232	1.4	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	Th-232	1.3	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	Th-232	0.8	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	Th-232	1.2	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	Th-232	-0.2	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	Th-232	-0.1	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	Th-232	0.9	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	Th-232	0.5	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	Th-232	0.8	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	Th-232	0.7	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	Th-232	0.4	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	Th-232	0.8	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	Th-232	1.4	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	Th-232	1.1	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	Th-232	2.5	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	Th-232	0.4	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	Th-232	6	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	Th-232	0.7	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	Th-232	0.7	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	Th-232	0.5	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	Th-232	0.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
273-I8-2	3022390.253	674332.022	1.5	Th-232	0.3	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	Th-232	1.5	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	Th-232	0.2	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	Th-232	0.4	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	Th-232	0.6	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	Th-232	0.4	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	Th-232	0.5	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	Th-232	0.9	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	Th-232	5.2	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	Th-232	1.6	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	Th-232	0.8	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	Th-232	0.7	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	Th-232	0.5	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	Th-232	0.7	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	Th-232	0.9	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	Th-232	0.6	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	Th-232	0.5	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	Th-232	1	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	Th-232	1.2	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	Th-232	0.4	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	Th-232	1.2	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	Th-232	0.9	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	Th-232	1	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	Th-232	0.4	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	Th-232	0.5	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	Th-232	1.1	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	Th-232	0.3	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	Th-232	0.5	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	Th-232	0.8	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	Th-232	0.7	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	Th-232	0.9	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	Th-232	0.7	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	Th-232	0.8	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	Th-232	1.4	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	Th-232	0.6	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	Th-232	0.5	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	Th-232	0.6	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	Th-232	0.3	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	Th-232	0.5	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	Th-232	0.9	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	Th-232	1	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	Th-232	1	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	Th-232	1.4	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	Th-232	1.5	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	Th-232	1.5	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	Th-232	0.4	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	Th-232	0.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
426-I8-2	3022258.504	674267.4201	1.5	Th-232	0.5	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	Th-232	0.3	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	Th-232	0.7	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	Th-232	0.9	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	Th-232	0.1	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	Th-232	0.7	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	Th-232	0.8	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	Th-232	3.9	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	Th-232	0.8	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	Th-232	1.2	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	Th-232	0.8	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	Th-232	1	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	Th-232	1.5	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	Th-232	1	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	Th-232	0.1	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	Th-232	0.6	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	Th-232	0.4	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	Th-232	1	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	Th-232	0.9	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	Th-232	1.5	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	Th-232	0.5	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	Th-232	0.7	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	Th-232	1.1	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	Th-232	0.9	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	Th-232	1.2	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	Th-232	0.5	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	Th-232	0.8	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	Th-232	0.5	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	Th-232	1.2	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	Th-232	1.5	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	Th-232	1	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	Th-232	1.2	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	Th-232	1.1	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	Th-232	1.1	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	Th-232	1.3	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	Th-232	0.6	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	Th-232	0.9	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	Th-232	2.1	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	Th-232	0.9	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	Th-232	0.9	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	Th-232	0.9	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	Th-232	2.1	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	Th-232	0.8	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	Th-232	1.2	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	Th-232	1.3	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	Th-232	1	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	Th-232	1.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
588-I8-2	3022283.413	674083.4	1.5	Th-232	0.6	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	Th-232	0.9	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	Th-232	0.8	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	Th-232	1.5	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	Th-232	2	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	Th-232	0.6	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	Th-232	0.9	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	Th-232	0.9	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	Th-232	0.5	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	Th-232	0.5	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	Th-232	0.4	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	Th-232	1	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	Th-232	1.1	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	Th-232	1.1	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	Th-232	0.6	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	Th-232	1.1	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	Th-232	0.8	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	Th-232	1.1	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	Th-232	0.7	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	Th-232	0.6	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	Th-232	0.5	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	Th-232	0.5	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	Th-232	0.6	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	Th-232	1.5	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	Th-232	0.7	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	Th-232	1.4	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	Th-232	1	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	Th-232	2	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	Th-232	0.7	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	U-233/234	9.1	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	U-233/234	18	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	U-233/234	2.5	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	U-233/234	14	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	U-233/234	3.5	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	U-233/234	2.6	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	U-233/234	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	U-233/234	18.8	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	U-233/234	4	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	U-233/234	4.7	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	U-233/234	1.7	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	U-233/234	2.6	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	U-233/234	9.7	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	U-233/234	3.7	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	U-233/234	10.2	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	U-233/234	3.9	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	U-233/234	2.8	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	U-233/234	2.6	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
167-B1-1	3022391.596	674425.8918	0.5	U-233/234	1.6	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	U-233/234	0.9	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	U-233/234	5	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	U-233/234	2.8	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	U-233/234	2.3	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	U-233/234	7.1	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	U-233/234	8.3	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	U-233/234	4.8	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	U-233/234	5.9	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	U-233/234	6.1	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	U-233/234	12	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	U-233/234	5.7	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	U-233/234	5.4	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	U-233/234	8.9	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	U-233/234	3.5	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	U-233/234	6.7	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	U-233/234	10.2	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	U-233/234	3	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	U-233/234	18.7	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	U-233/234	5.2	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	U-233/234	24.3	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	U-233/234	8.4	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	U-233/234	9.1	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	U-233/234	14.5	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	U-233/234	3.2	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	U-233/234	5.6	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	U-233/234	8.6	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	U-233/234	2	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	U-233/234	5.5	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	U-233/234	14	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	U-233/234	5.2	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	U-233/234	6.3	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	U-233/234	5.8	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	U-233/234	3.8	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	U-233/234	7.8	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	U-233/234	1.3	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	U-233/234	9.1	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	U-233/234	34.2	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	U-233/234	12	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	U-233/234	3.2	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	U-233/234	16.6	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	U-233/234	41.9	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	U-233/234	9.8	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	U-233/234	3.6	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	U-233/234	0.2	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	U-233/234	7.5	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	U-233/234	4.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
236-I8-1	3022384.026	674378.0271	0.5	U-233/234	3.4	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	U-233/234	2.5	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	U-233/234	3	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	U-233/234	5.6	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	U-233/234	4.3	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	U-233/234	3.3	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	U-233/234	2.3	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	U-233/234	1.3	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	U-233/234	14	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	U-233/234	5.8	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	U-233/234	4.8	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	U-233/234	32.9	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	U-233/234	0.9	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	U-233/234	0	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	U-233/234	1.1	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	U-233/234	6.7	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	U-233/234	3.3	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	U-233/234	4.8	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	U-233/234	8.3	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	U-233/234	1.6	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	U-233/234	17.6	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	U-233/234	11.3	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	U-233/234	4.9	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	U-233/234	5.4	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	U-233/234	3.4	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	U-233/234	4.8	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	U-233/234	2.5	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	U-233/234	47.1	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	U-233/234	41.8	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	U-233/234	8.3	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	U-233/234	3.2	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	U-233/234	7.8	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	U-233/234	3.9	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	U-233/234	4.3	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	U-233/234	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	U-233/234	3.8	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	U-233/234	3.7	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	U-233/234	2.7	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	U-233/234	2.6	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	U-233/234	14.4	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	U-233/234	2.6	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	U-233/234	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	U-233/234	44.9	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	U-233/234	2.7	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	U-233/234	2.9	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	U-233/234	5.8	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	U-233/234	2.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
348-C2-1	3022322.893	674276.0987	0.5	U-233/234	3.5	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	U-233/234	5.7	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	U-233/234	3.9	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	U-233/234	4.3	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	U-233/234	6.1	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	U-233/234	3.5	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	U-233/234	243.9	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	U-233/234	49	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	U-233/234	6.9	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	U-233/234	3.9	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	U-233/234	5	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	U-233/234	6.3	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	U-233/234	3.5	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	U-233/234	2.7	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	U-233/234	4.9	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	U-233/234	7.5	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	U-233/234	5.2	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	U-233/234	5	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	U-233/234	6.3	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	U-233/234	42.1	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	U-233/234	5.2	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	U-233/234	2.4	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	U-233/234	14.2	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	U-233/234	7.6	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	U-233/234	5.4	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	U-233/234	5.7	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	U-233/234	8.2	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	U-233/234	8.1	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	U-233/234	5.5	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	U-233/234	46.5	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	U-233/234	133.3	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	U-233/234	117	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	U-233/234	85.1	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	U-233/234	12.7	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	U-233/234	23.4	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	U-233/234	29.4	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	U-233/234	5.3	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	U-233/234	10.9	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	U-233/234	4.2	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	U-233/234	1.2	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	U-233/234	2	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	U-233/234	4.1	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	U-233/234	14.7	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	U-233/234	11.2	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	U-233/234	14.5	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	U-233/234	22.3	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	U-233/234	27.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
508-I8-1	3022297.068	674155.5071	0.5	U-233/234	16.5	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	U-233/234	5.3	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	U-233/234	12.1	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	U-233/234	7.4	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-233/234	2.7	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	U-233/234	200	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	U-233/234	17.6	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	U-233/234	23.6	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	U-233/234	18.4	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	U-233/234	34.2	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	U-233/234	33	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	U-233/234	16.9	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	U-233/234	21.6	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	U-233/234	2.7	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	U-233/234	3.1	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	U-233/234	6.6	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	U-233/234	9.3	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	U-233/234	4.8	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	U-233/234	164.1	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	U-233/234	4	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	U-233/234	76.6	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	U-233/234	3	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	U-233/234	10.2	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	U-233/234	26.2	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	U-233/234	7.9	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	U-233/234	7.8	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	U-233/234	6.1	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	U-233/234	7.1	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	U-233/234	3.9	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	U-233/234	6	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	U-233/234	3.6	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	U-233/234	7.9	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	U-233/234	6.4	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	U-233/234	2.8	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	U-233/234	0.5	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	U-233/234	4.2	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	U-233/234	3.8	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	U-233/234	5.4	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	U-233/234	9.6	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	U-233/234	10.2	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	U-233/234	5.1	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	U-233/234	7.1	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	U-233/234	12.2	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	U-233/234	31.2	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	U-233/234	6	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	U-233/234	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	U-233/234	4.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
114-G8-2	3022746.785	674258.2812	1.5	U-233/234	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	U-233/234	1.3	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	U-233/234	2.2	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	U-233/234	6	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	U-233/234	6.5	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	U-233/234	5.5	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	U-233/234	4.3	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	U-233/234	3	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	U-233/234	3.1	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	U-233/234	3.8	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	U-233/234	6.1	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	U-233/234	3.5	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	U-233/234	2.5	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	U-233/234	0.7	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	U-233/234	3.8	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	U-233/234	2.3	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	U-233/234	2.7	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	U-233/234	3.8	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	U-233/234	3.2	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	U-233/234	2.3	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	U-233/234	7.6	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	U-233/234	3.1	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	U-233/234	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	U-233/234	0.8	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	U-233/234	2.1	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	U-233/234	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	U-233/234	6	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	U-233/234	4.1	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	U-233/234	5.4	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	U-233/234	3.4	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	U-233/234	1.7	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	U-233/234	3.9	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	U-233/234	1.7	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	U-233/234	5.2	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	U-233/234	0.8	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	U-233/234	3	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	U-233/234	0.3	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	U-233/234	0.7	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	U-233/234	1.3	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	U-233/234	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	U-233/234	1.5	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	U-233/234	0.7	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	U-233/234	2.3	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	U-233/234	3.7	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	U-233/234	1.9	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	U-233/234	6	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	U-233/234	8.8	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
207-B2-2	3022530.982	674278.3813	1.5	U-233/234	3.5	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	U-233/234	2.5	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	U-233/234	5.8	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	U-233/234	0.2	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	U-233/234	4.9	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	U-233/234	1.4	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	U-233/234	3.1	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	U-233/234	1.1	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	U-233/234	1.9	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	U-233/234	3.2	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	U-233/234	1.7	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	U-233/234	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	U-233/234	1	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	U-233/234	2.9	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	U-233/234	0.6	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	U-233/234	2.6	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	U-233/234	1.8	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	U-233/234	3.5	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	U-233/234	4.4	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	U-233/234	3.3	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	U-233/234	61.7	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	U-233/234	2.8	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	U-233/234	0.1	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	U-233/234	2.3	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	U-233/234	1.1	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	U-233/234	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	U-233/234	1.1	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	U-233/234	1.5	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	U-233/234	5.8	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	U-233/234	1.4	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	U-233/234	1.5	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	U-233/234	1.9	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	U-233/234	3.1	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	U-233/234	1.7	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	U-233/234	4.1	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	U-233/234	43.4	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	U-233/234	6.4	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	U-233/234	5.1	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	U-233/234	3.9	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	U-233/234	2.5	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	U-233/234	1.1	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	U-233/234	3.1	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	U-233/234	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	U-233/234	0.4	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	U-233/234	2.8	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	U-233/234	2.5	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	U-233/234	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
312-I8-2	3022422.59	674266.114	1.5	U-233/234	2.9	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	U-233/234	2.1	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	U-233/234	1.7	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	U-233/234	1.1	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	U-233/234	0	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	U-233/234	1.1	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	U-233/234	0.1	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	U-233/234	0.1	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	U-233/234	1.6	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	U-233/234	1.3	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	U-233/234	2	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	U-233/234	2.4	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	U-233/234	0.8	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	U-233/234	16.3	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	U-233/234	0.2	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	U-233/234	2	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	U-233/234	0	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	U-233/234	0.8	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	U-233/234	1.8	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	U-233/234	3.4	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	U-233/234	1.6	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	U-233/234	6.2	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	U-233/234	0	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	U-233/234	11.5	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	U-233/234	5.2	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	U-233/234	4.3	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	U-233/234	0.5	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	U-233/234	0	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	U-233/234	4.2	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	U-233/234	2.3	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	U-233/234	2.4	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	U-233/234	3.1	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	U-233/234	1.6	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	U-233/234	2.2	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	U-233/234	68.4	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	U-233/234	9.1	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	U-233/234	10.7	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	U-233/234	3	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	U-233/234	6.7	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	U-233/234	4.9	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	U-233/234	1.8	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	U-233/234	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	U-233/234	1.2	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	U-233/234	2.5	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	U-233/234	7.5	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	U-233/234	3.8	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	U-233/234	12.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
505-I8-2	3022218.74	674215.2162	1.5	U-233/234	3.2	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	U-233/234	0.7	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	U-233/234	2.2	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	U-233/234	3.5	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	U-233/234	0.4	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	U-233/234	2.9	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	U-233/234	1	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	U-233/234	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	U-233/234	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	U-233/234	20	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	U-233/234	3.4	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	U-233/234	3	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	U-233/234	10.8	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	U-233/234	3.6	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	U-233/234	1.4	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	U-233/234	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	U-233/234	3.2	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	U-233/234	24.6	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	U-233/234	1.5	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	U-233/234	0.1	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	U-233/234	2.8	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	U-233/234	29.6	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	U-233/234	2.8	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	U-233/234	1.9	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	U-233/234	6.7	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	U-233/234	3	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	U-233/234	2.7	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	U-233/234	2.9	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	U-233/234	1	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	U-233/234	1.7	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	U-233/234	1.3	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	U-233/234	5.9	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	U-233/234	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	U-233/234	16.1	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	U-233/234	1.4	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	U-233/234	2.2	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	U-233/234	3.6	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	U-233/234	2.8	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	U-233/234	2.1	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	U-233/234	3.1	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	U-233/234	3.6	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	U-233/234	1.3	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	U-233/234	16.3	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	U-233/234	1.3	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	U-233/234	4.1	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	U-233/234	0.7	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	U-233/234	2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
586-F3-3	3022212.174	674125.327	2.5	U-233/234	1.1	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	U-233/234	2.2	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	U-233/234	3.5	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	U-233/234	1.6	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	U-233/234	7.4	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	U-233/234	0.6	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	U-233/234	1.8	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	U-233/234	2.7	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	U-233/234	0.7	pCi/g	Pre
1706	3022232.292	674322.5128	0	U-235	1.2	pCi/g	Post
113-D5-1	3022706.877	674276.3246	0.5	U-235	0.4	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	U-235	0.4	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	U-235	0.1	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	U-235	0.4	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	U-235	0.1	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	U-235	0.1	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	U-235	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	U-235	0.5	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	U-235	0.2	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	U-235	0.2	pCi/g	Pre
143-E1-1	3022652.43	674280.697	0.5	U-235	0.1	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	U-235	0.1	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	U-235	0.4	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	U-235	0.2	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	U-235	0.4	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	U-235	0.2	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	U-235	0.1	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	U-235	0.1	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	U-235	0.1	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	U-235	0	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	U-235	0.2	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	U-235	0.1	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	U-235	0.1	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	U-235	0.3	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	U-235	0.4	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	U-235	0.3	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	U-235	0.2	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	U-235	0.2	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	U-235	0.7	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	U-235	0.2	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	U-235	0.2	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	U-235	0.4	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	U-235	0.1	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	U-235	0.3	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	U-235	0.4	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	U-235	0.1	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	U-235	0.8	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
177-E8-1	3022676.934	674220.7599	0.5	U-235	0.2	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	U-235	1	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	U-235	0.3	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	U-235	0.4	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	U-235	0.7	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	U-235	0.3	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	U-235	0.2	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	U-235	0.3	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	U-235	0.1	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	U-235	0.2	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	U-235	0.6	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	U-235	0.2	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	U-235	0.3	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	U-235	0.2	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	U-235	0	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	U-235	0.3	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	U-235	0.1	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	U-235	0.3	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	U-235	2	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	U-235	0.4	pCi/g	Pre
207-H8-1	3022341.859	674302.004	0.5	U-235	0.1	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	U-235	0.7	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	U-235	1.6	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	U-235	0.4	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	U-235	0.1	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	U-235	0	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	U-235	0.3	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	U-235	0.2	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	U-235	0.1	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	U-235	0.1	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	U-235	0.1	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	U-235	0.2	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	U-235	0.2	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	U-235	0.1	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	U-235	0.1	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	U-235	0.1	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	U-235	0.3	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	U-235	0.3	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	U-235	0.1	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	U-235	1.3	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	U-235	0	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	U-235	0	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	U-235	0	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	U-235	0.4	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	U-235	0.1	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	U-235	0.2	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	U-235	0.4	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
273-I8-1	3022390.253	674332.022	0.5	U-235	0.1	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	U-235	0.7	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	U-235	0.4	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	U-235	0.5	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	U-235	0.3	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	U-235	0.1	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	U-235	0.1	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	U-235	0.1	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	U-235	2.2	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	U-235	1.6	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	U-235	0.3	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	U-235	0.1	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	U-235	0.3	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	U-235	0.2	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	U-235	0.2	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	U-235	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	U-235	0.2	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	U-235	0.2	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	U-235	0.6	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	U-235	0.1	pCi/g	Pre
312-C2-1	3022394.995	674262.3946	0.5	U-235	0.4	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	U-235	0.1	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	U-235	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	U-235	2.5	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	U-235	0.1	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	U-235	0.1	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	U-235	0.2	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	U-235	0.1	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	U-235	0.1	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	U-235	0.2	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	U-235	0.2	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	U-235	0.2	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	U-235	0.2	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	U-235	0.1	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	U-235	7.9	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	U-235	1.1	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	U-235	0.3	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	U-235	0.2	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	U-235	0.2	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	U-235	0.3	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	U-235	0.1	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	U-235	0.1	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	U-235	0.2	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	U-235	0.3	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	U-235	0.2	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	U-235	0.2	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	U-235	0.3	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
425-I8-1	3022232.395	674287.3232	0.5	U-235	1.6	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	U-235	0.2	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	U-235	0.1	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	U-235	0.6	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	U-235	0.3	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	U-235	0.2	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	U-235	0.2	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	U-235	0.3	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	U-235	0.3	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	U-235	0.2	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	U-235	1.9	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	U-235	5.1	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	U-235	4.5	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	U-235	3.9	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	U-235	0.5	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	U-235	0.9	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	U-235	1.2	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	U-235	0.2	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	U-235	0.4	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	U-235	0.2	pCi/g	Pre
470-C2-1	3022315.465	674157.9866	0.5	U-235	0	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	U-235	0.1	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	U-235	0.2	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	U-235	0.7	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	U-235	0.4	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	U-235	0.6	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	U-235	0.9	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	U-235	1.1	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	U-235	0.7	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	U-235	0.2	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	U-235	0.5	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	U-235	0.3	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-235	0.1	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	U-235	1.5	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	U-235	0.7	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	U-235	0.9	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	U-235	0.7	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	U-235	1.3	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	U-235	1.1	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	U-235	0.7	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	U-235	0.9	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	U-235	0.1	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	U-235	0.1	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	U-235	0.3	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	U-235	0.4	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	U-235	0.2	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	U-235	6.2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
585-C2-1	3022177.489	674139.3898	0.5	U-235	0.2	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	U-235	3.5	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	U-235	0.1	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	U-235	0.4	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	U-235	1	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	U-235	0.3	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	U-235	0.3	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	U-235	0.2	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	U-235	0.3	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	U-235	0.2	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	U-235	0.2	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	U-235	0.1	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	U-235	0.3	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	U-235	0.3	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	U-235	0.1	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	U-235	0	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	U-235	0.2	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	U-235	0.2	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	U-235	0.2	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	U-235	0.4	pCi/g	Pre
629-I8-1	3022289.64	674037.395	0.5	U-235	0.4	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	U-235	0.2	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	U-235	0.3	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	U-235	0.5	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	U-235	1.2	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	U-235	0.2	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	U-235	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	U-235	0.2	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	U-235	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	U-235	0.1	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	U-235	0.1	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	U-235	0.2	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	U-235	0.3	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	U-235	0.2	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	U-235	0.2	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	U-235	0.1	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	U-235	0.1	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	U-235	0.2	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	U-235	0.2	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	U-235	0.1	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	U-235	0.1	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	U-235	0	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	U-235	0.2	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	U-235	0.1	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	U-235	0.1	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	U-235	0	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	U-235	0	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
172-I8-2	3022554.339	674330.7158	1.5	U-235	0.1	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	U-235	0.3	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	U-235	0.1	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	U-235	-0.1	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	U-235	0	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	U-235	0.1	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	U-235	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	U-235	0.2	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	U-235	0.2	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	U-235	0.2	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	U-235	0.1	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	U-235	0.1	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	U-235	0.2	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	U-235	0.1	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	U-235	0.2	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	U-235	0	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	U-235	0.1	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	U-235	0	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	U-235	0	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	U-235	0.1	pCi/g	Pre
203-I8-2	3022456.128	674364.323	1.5	U-235	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	U-235	0.1	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	U-235	0	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	U-235	0.2	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	U-235	0.2	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	U-235	0.1	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	U-235	0.1	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	U-235	0.4	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	U-235	0.1	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	U-235	0.1	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	U-235	0.2	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	U-235	0	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	U-235	0.2	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	U-235	0.1	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	U-235	0.1	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	U-235	0	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	U-235	0.1	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	U-235	0.1	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	U-235	0.1	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	U-235	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	U-235	0	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	U-235	0.1	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	U-235	0	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	U-235	0.1	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	U-235	0	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	U-235	0.3	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	U-235	0.2	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
241-H8-2	3022512.586	674275.9017	1.5	U-235	0.3	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	U-235	2.4	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	U-235	0.1	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	U-235	0	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	U-235	0.1	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	U-235	0	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	U-235	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	U-235	0	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	U-235	0.1	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	U-235	0.2	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	U-235	0.1	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	U-235	0.1	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	U-235	0.3	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	U-235	0.1	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	U-235	0.2	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	U-235	0.2	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	U-235	1.7	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	U-235	0.3	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	U-235	0.2	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	U-235	0.2	pCi/g	Pre
308-I8-2	3022318.152	674345.7261	1.5	U-235	0.1	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	U-235	0	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	U-235	0.1	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	U-235	-0.1	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	U-235	0	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	U-235	0.1	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	U-235	0.1	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	U-235	-0.1	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	U-235	0.1	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	U-235	0.1	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	U-235	0.1	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	U-235	0	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	U-235	-0.1	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	U-235	0	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	U-235	0	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	U-235	0	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	U-235	0.1	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	U-235	0.1	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	U-235	0.1	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	U-235	0.1	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	U-235	0	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	U-235	0.6	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	U-235	0	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	U-235	0.1	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	U-235	0	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	U-235	0	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	U-235	0.2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
388-C2-2	3022303.011	674249.9967	1.5	U-235	0.1	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	U-235	0.1	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	U-235	0.3	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	U-235	0	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	U-235	0.5	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	U-235	0.2	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	U-235	0.2	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	U-235	0	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	U-235	0	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	U-235	0.2	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	U-235	0.1	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	U-235	0.1	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	U-235	0.1	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	U-235	0.1	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	U-235	0.1	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	U-235	2.6	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	U-235	0.4	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	U-235	0.4	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	U-235	0.1	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	U-235	0.3	pCi/g	Pre
467-C2-2	3022237.136	674217.6957	1.5	U-235	0.2	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	U-235	0.1	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	U-235	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	U-235	0.1	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	U-235	0.1	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	U-235	0.3	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	U-235	0.2	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	U-235	0.5	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	U-235	0.1	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	U-235	0	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	U-235	0.1	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	U-235	0.1	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	U-235	0	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	U-235	0.1	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	U-235	0	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	U-235	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	U-235	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	U-235	0.5	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	U-235	0.1	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	U-235	0.1	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	U-235	0.4	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	U-235	0.1	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	U-235	0.1	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	U-235	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	U-235	0.1	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	U-235	0.8	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	U-235	0.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
549-I8-2	3022329.405	674089.599	1.5	U-235	0	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	U-235	0.1	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	U-235	1.2	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	U-235	0.1	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	U-235	0.1	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	U-235	0.3	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	U-235	0.1	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	U-235	0.1	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	U-235	0.1	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	U-235	0	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	U-235	0.1	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	U-235	0.1	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	U-235	0.8	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	U-235	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	U-235	0.6	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	U-235	0.1	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	U-235	0.1	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	U-235	0.1	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	U-235	0.1	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	U-235	0.1	pCi/g	Pre
237-C2-3	3022382.54	674354.4046	2.5	U-235	0.1	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	U-235	0.1	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	U-235	0.1	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	U-235	0.6	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	U-235	0.1	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	U-235	0.2	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	U-235	0	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	U-235	0.1	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	U-235	0	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	U-235	0.1	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	U-235	0.1	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	U-235	0	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	U-235	0.1	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	U-235	0.3	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	U-235	0.1	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	U-235	0.1	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	U-235	0	pCi/g	Pre
113-D5-1	3022706.877	674276.3246	0.5	U-238	2	pCi/g	Pre
113-E6-1	3022711.477	674276.9445	0.5	U-238	5.4	pCi/g	Pre
114-C2-1	3022723.166	674259.7822	0.5	U-238	0.8	pCi/g	Pre
114-F0-1	3022723.909	674271.5934	0.5	U-238	4.1	pCi/g	Pre
114-G8-1	3022746.785	674258.2812	0.5	U-238	1.1	pCi/g	Pre
115-I8-1	3022776.871	674243.5986	0.5	U-238	0.8	pCi/g	Pre
116-D1-1	3022414.891	674204.6736	0.5	U-238	0	pCi/g	Pre
140-B6-1	3022581.191	674322.624	0.5	U-238	1.8	pCi/g	Pre
142-C2-1	3022624.955	674293.3894	0.5	U-238	1.1	pCi/g	Pre
142-H8-1	3022650.562	674294.4985	0.5	U-238	1.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
143-E1-1	3022652.43	674280.697	0.5	U-238	0.6	pCi/g	Pre
143-J8-1	3022680.648	674279.8159	0.5	U-238	0.9	pCi/g	Pre
144-C2-1	3022677.174	674253.5833	0.5	U-238	2.1	pCi/g	Pre
144-I8-1	3022704.769	674257.3027	0.5	U-238	1.1	pCi/g	Pre
145-D3-1	3022707.883	674234.3001	0.5	U-238	2.2	pCi/g	Pre
145-I1-1	3022712.602	674251.3317	0.5	U-238	1.1	pCi/g	Pre
146-B2-1	3022295.957	674193.2543	0.5	U-238	0.9	pCi/g	Pre
146-I7-1	3022295.957	674078.1753	0.5	U-238	0.9	pCi/g	Pre
167-B1-1	3022391.596	674425.8918	0.5	U-238	0.6	pCi/g	Pre
168-C8-1	3022437.971	674394.6668	0.5	U-238	0.4	pCi/g	Pre
169-C2-1	3022448.415	674386.7056	0.5	U-238	1.3	pCi/g	Pre
170-C2-1	3022474.524	674366.8025	0.5	U-238	0.9	pCi/g	Pre
170-J1-1	3022485.831	674387.0642	0.5	U-238	0.7	pCi/g	Pre
171-C2-1	3022500.634	674346.8995	0.5	U-238	1.1	pCi/g	Pre
171-H8-1	3022526.241	674348.0087	0.5	U-238	1.3	pCi/g	Pre
171-J3-1	3022517.163	674363.1806	0.5	U-238	1.3	pCi/g	Pre
172-C2-1	3022526.743	674326.9965	0.5	U-238	1.2	pCi/g	Pre
172-I8-1	3022554.339	674330.7158	0.5	U-238	1.5	pCi/g	Pre
173-C2-1	3022552.853	674307.0934	0.5	U-238	2.2	pCi/g	Pre
173-I7-1	3022577.837	674312.8031	0.5	U-238	1.5	pCi/g	Pre
174-B1-1	3022574.363	674286.5705	0.5	U-238	1.4	pCi/g	Pre
174-I8-1	3022606.558	674290.9098	0.5	U-238	2	pCi/g	Pre
175-B2-1	3022603.084	674264.6772	0.5	U-238	1.1	pCi/g	Pre
175-G8-1	3022628.691	674265.7863	0.5	U-238	1.6	pCi/g	Pre
176-C2-1	3022631.182	674247.3843	0.5	U-238	2.2	pCi/g	Pre
176-J9-1	3022663.376	674251.7236	0.5	U-238	1	pCi/g	Pre
177-C2-1	3022657.291	674227.4813	0.5	U-238	2.5	pCi/g	Pre
177-E8-1	3022676.934	674220.7599	0.5	U-238	1.4	pCi/g	Pre
178-C2-1	3022683.401	674207.5783	0.5	U-238	3.9	pCi/g	Pre
178-I8-1	3022710.996	674211.2976	0.5	U-238	1.9	pCi/g	Pre
179-D2-1	3022711.499	674190.2854	0.5	U-238	1.7	pCi/g	Pre
200-C8-1	3022365.869	674408.3709	0.5	U-238	2.5	pCi/g	Pre
200-I1-1	3022359.522	674437.9642	0.5	U-238	0.6	pCi/g	Pre
201-C1-1	3022373.702	674402.4	0.5	U-238	1.4	pCi/g	Pre
201-I8-1	3022403.908	674404.129	0.5	U-238	1.9	pCi/g	Pre
202-C2-1	3022402.423	674380.5066	0.5	U-238	0.7	pCi/g	Pre
202-G8-1	3022426.041	674379.0056	0.5	U-238	1.4	pCi/g	Pre
203-C2-1	3022428.532	674360.6036	0.5	U-238	2.1	pCi/g	Pre
203-I8-1	3022456.128	674364.323	0.5	U-238	1.4	pCi/g	Pre
204-C2-1	3022454.642	674340.7006	0.5	U-238	1.6	pCi/g	Pre
204-I8-1	3022482.237	674344.4199	0.5	U-238	1.5	pCi/g	Pre
205-C3-1	3022483.362	674318.8072	0.5	U-238	0.7	pCi/g	Pre
205-I8-1	3022508.347	674324.5169	0.5	U-238	3.6	pCi/g	Pre
206-C2-1	3022506.861	674300.8945	0.5	U-238	0.4	pCi/g	Pre
206-I8-1	3022534.456	674304.6139	0.5	U-238	1	pCi/g	Pre
206-I9-1	3022537.067	674302.6236	0.5	U-238	19.8	pCi/g	Pre
207-B2-1	3022530.982	674278.3813	0.5	U-238	1.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
207-H8-1	3022341.859	674302.004	0.5	U-238	1	pCi/g	Pre
208-I8-1	3022586.675	674264.8078	0.5	U-238	3	pCi/g	Pre
209-I8-1	3022612.785	674244.9048	0.5	U-238	5.7	pCi/g	Pre
210-J8-1	3022640.883	674227.6119	0.5	U-238	2.1	pCi/g	Pre
234-I7-1	3022329.196	674419.8234	0.5	U-238	1.1	pCi/g	Pre
235-B1-1	3022325.722	674393.5908	0.5	U-238	0.2	pCi/g	Pre
235-I9-1	3022360.527	674395.9398	0.5	U-238	1.8	pCi/g	Pre
236-C1-1	3022353.82	674376.298	0.5	U-238	1.2	pCi/g	Pre
236-I8-1	3022384.026	674378.0271	0.5	U-238	1	pCi/g	Pre
237-C2-1	3022382.54	674354.4046	0.5	U-238	0.8	pCi/g	Pre
237-I8-1	3022410.136	674358.124	0.5	U-238	1	pCi/g	Pre
238-C2-1	3022408.65	674334.5016	0.5	U-238	1.4	pCi/g	Pre
238-I8-1	3022436.245	674338.221	0.5	U-238	1.2	pCi/g	Pre
239-C2-1	3022434.76	674314.5986	0.5	U-238	1	pCi/g	Pre
239-I8-1	3022462.355	674318.3179	0.5	U-238	0.9	pCi/g	Pre
240-B1-1	3022456.27	674294.0756	0.5	U-238	0.7	pCi/g	Pre
240-I8-1	3022488.464	674298.4149	0.5	U-238	4.3	pCi/g	Pre
241-D2-1	3022488.967	674277.4027	0.5	U-238	1.5	pCi/g	Pre
241-H8-1	3022512.586	674275.9017	0.5	U-238	0.7	pCi/g	Pre
270-C2-1	3022284.329	674388.0118	0.5	U-238	4.8	pCi/g	Pre
270-F6-1	3022300.738	674387.8811	0.5	U-238	0.4	pCi/g	Pre
270-I8-1	3022311.924	674391.7311	0.5	U-238	0	pCi/g	Pre
271-C2-1	3022310.439	674368.1087	0.5	U-238	0.5	pCi/g	Pre
271-I8-1	3022338.034	674371.8281	0.5	U-238	1.2	pCi/g	Pre
272-E2-1	3022340.525	674353.4261	0.5	U-238	1	pCi/g	Pre
272-I9-1	3022366.754	674349.9348	0.5	U-238	1.3	pCi/g	Pre
273-C2-1	3022362.658	674328.3027	0.5	U-238	1.3	pCi/g	Pre
273-I8-1	3022390.253	674332.022	0.5	U-238	0.6	pCi/g	Pre
274-C2-1	3022388.768	674308.3996	0.5	U-238	3.1	pCi/g	Pre
274-I8-1	3022416.363	674312.119	0.5	U-238	1.3	pCi/g	Pre
275-C2-1	3022414.877	674288.4966	0.5	U-238	0.8	pCi/g	Pre
275-I8-1	3022442.472	674292.216	0.5	U-238	0.9	pCi/g	Pre
276-C1-1	3022438.376	674270.5839	0.5	U-238	0.9	pCi/g	Pre
276-G8-1	3022464.605	674267.0925	0.5	U-238	0.7	pCi/g	Pre
277-F5-1	3022480.894	674250.5502	0.5	U-238	0.8	pCi/g	Pre
278-F5-1	3022584.545	674250.5502	0.5	U-238	9.3	pCi/g	Pre
307-C2-1	3022264.447	674361.9098	0.5	U-238	5.7	pCi/g	Pre
307-I6-1	3022286.82	674369.6098	0.5	U-238	1.9	pCi/g	Pre
308-C2-1	3022290.556	674342.0067	0.5	U-238	1	pCi/g	Pre
308-I8-1	3022318.152	674345.7261	0.5	U-238	1.8	pCi/g	Pre
309-C2-1	3022316.666	674322.1037	0.5	U-238	1.1	pCi/g	Pre
309-I8-1	3022344.261	674325.8231	0.5	U-238	1.2	pCi/g	Pre
310-C2-1	3022342.776	674302.2007	0.5	U-238	0	pCi/g	Pre
310-E8-1	3022362.418	674295.4792	0.5	U-238	1.1	pCi/g	Pre
310-I8-1	3022370.371	674305.92	0.5	U-238	1.1	pCi/g	Pre
311-C2-1	3022368.885	674282.2976	0.5	U-238	0.8	pCi/g	Pre
311-I8-1	3022396.48	674286.017	0.5	U-238	0.8	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
312-C2-1	3022394.995	674262.3946	0.5	U-238	1.7	pCi/g	Pre
312-I8-1	3022422.59	674266.114	0.5	U-238	0.9	pCi/g	Pre
313-F5-1	3022434.902	674244.3512	0.5	U-238	0	pCi/g	Pre
345-I8-1	3022272.16	674339.5272	0.5	U-238	2	pCi/g	Pre
346-C2-1	3022270.674	674315.9047	0.5	U-238	0.9	pCi/g	Pre
346-I8-1	3022298.269	674319.6241	0.5	U-238	0.9	pCi/g	Pre
347-C2-1	3022296.784	674296.0017	0.5	U-238	1.5	pCi/g	Pre
347-I8-1	3022324.379	674299.7211	0.5	U-238	0.8	pCi/g	Pre
348-C2-1	3022322.893	674276.0987	0.5	U-238	1.1	pCi/g	Pre
348-I4-1	3022340.044	674287.7793	0.5	U-238	1	pCi/g	Pre
349-C2-1	3022349.003	674256.1956	0.5	U-238	1.1	pCi/g	Pre
349-I8-1	3022376.598	674259.915	0.5	U-238	1.2	pCi/g	Pre
350-C2-1	3022375.112	674236.2926	0.5	U-238	1.5	pCi/g	Pre
350-I8-1	3022402.707	674240.012	0.5	U-238	1	pCi/g	Pre
385-E2-1	3022228.658	674314.9262	0.5	U-238	10.6	pCi/g	Pre
385-I8-1	3022252.277	674313.4252	0.5	U-238	1.9	pCi/g	Pre
386-C2-1	3022250.792	674289.8028	0.5	U-238	1.7	pCi/g	Pre
386-I8-1	3022278.387	674293.5221	0.5	U-238	1.1	pCi/g	Pre
387-C2-1	3022276.901	674269.8997	0.5	U-238	1.3	pCi/g	Pre
387-I8-1	3022304.496	674273.6191	0.5	U-238	1.6	pCi/g	Pre
388-C2-1	3022303.011	674249.9967	0.5	U-238	1	pCi/g	Pre
388-I5-1	3022322.773	674259.687	0.5	U-238	0.9	pCi/g	Pre
389-C2-1	3022329.12	674230.0937	0.5	U-238	1.3	pCi/g	Pre
389-I8-1	3022356.716	674233.813	0.5	U-238	1.8	pCi/g	Pre
390-C2-1	3022355.23	674210.1906	0.5	U-238	1.4	pCi/g	Pre
390-I8-1	3022382.825	674213.91	0.5	U-238	1.3	pCi/g	Pre
391-F5-1	3022395.137	674192.1473	0.5	U-238	1.6	pCi/g	Pre
425-I8-1	3022232.395	674287.3232	0.5	U-238	5.7	pCi/g	Pre
426-C2-1	3022230.909	674263.7008	0.5	U-238	1.4	pCi/g	Pre
426-I8-1	3022258.504	674267.4201	0.5	U-238	0.8	pCi/g	Pre
427-C2-1	3022257.019	674243.7977	0.5	U-238	2.7	pCi/g	Pre
427-I8-1	3022284.614	674247.5171	0.5	U-238	1.8	pCi/g	Pre
428-C2-1	3022283.128	674223.8947	0.5	U-238	1.4	pCi/g	Pre
428-I5-1	3022302.891	674233.585	0.5	U-238	1.5	pCi/g	Pre
429-C2-1	3022309.238	674203.9917	0.5	U-238	1.8	pCi/g	Pre
429-I8-1	3022336.833	674207.711	0.5	U-238	1.9	pCi/g	Pre
430-C2-1	3022335.347	674184.0886	0.5	U-238	1.4	pCi/g	Pre
430-I8-1	3022362.943	674187.808	0.5	U-238	2.8	pCi/g	Pre
465-I8-1	3022212.512	674261.2212	0.5	U-238	12.4	pCi/g	Pre
466-C2-1	3022211.027	674237.5988	0.5	U-238	11.4	pCi/g	Pre
466-I8-1	3022238.622	674241.3182	0.5	U-238	3.9	pCi/g	Pre
467-C2-1	3022237.136	674217.6957	0.5	U-238	2.5	pCi/g	Pre
467-I8-1	3022264.732	674221.4151	0.5	U-238	1.6	pCi/g	Pre
468-F2-1	3022269.211	674205.6233	0.5	U-238	4.5	pCi/g	Pre
468-I8-1	3022290.841	674201.5121	0.5	U-238	1.4	pCi/g	Pre
469-C1-1	3022289.355	674177.8897	0.5	U-238	2.3	pCi/g	Pre
469-I8-1	3022316.951	674181.609	0.5	U-238	1.2	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
470-C2-1	3022315.465	674157.9866	0.5	U-238	0.5	pCi/g	Pre
470-C8-1	3022331.131	674146.0448	0.5	U-238	0.7	pCi/g	Pre
471-F5-1	3022355.372	674139.9433	0.5	U-238	1.2	pCi/g	Pre
505-I8-1	3022218.74	674215.2162	0.5	U-238	1.7	pCi/g	Pre
506-C2-1	3022217.254	674191.5938	0.5	U-238	2.3	pCi/g	Pre
506-I8-1	3022244.849	674195.3131	0.5	U-238	2.8	pCi/g	Pre
507-B1-1	3022238.764	674171.0708	0.5	U-238	3.7	pCi/g	Pre
508-B1-1	3022264.874	674151.1678	0.5	U-238	4.2	pCi/g	Pre
508-I8-1	3022297.068	674155.5071	0.5	U-238	3	pCi/g	Pre
509-C2-1	3022295.583	674131.8847	0.5	U-238	1.4	pCi/g	Pre
509-I8-1	3022323.178	674135.604	0.5	U-238	2.4	pCi/g	Pre
510-C5-1	3022329.525	674106.0107	0.5	U-238	1.7	pCi/g	Pre
511-F5-1	3022361.599	674093.9383	0.5	U-238	0.9	pCi/g	Pre
544-D5-1	3022181.083	674182.0341	0.5	U-238	1.5	pCi/g	Pre
544-I9-1	3022201.468	674187.1239	0.5	U-238	3.1	pCi/g	Pre
545-C3-1	3022199.982	674163.5015	0.5	U-238	3.8	pCi/g	Pre
545-I8-1	3022224.967	674169.2111	0.5	U-238	3.2	pCi/g	Pre
546-C2-1	3022223.481	674145.5887	0.5	U-238	4.9	pCi/g	Pre
546-I8-1	3022251.076	674149.3081	0.5	U-238	4.2	pCi/g	Pre
547-D1-1	3022248.968	674130.2862	0.5	U-238	3.1	pCi/g	Pre
547-I6-1	3022271.964	674133.3857	0.5	U-238	3.6	pCi/g	Pre
548-C4-1	3022280.922	674101.8021	0.5	U-238	0.9	pCi/g	Pre
548-I8-1	3022303.295	674109.502	0.5	U-238	1	pCi/g	Pre
549-C5-1	3022309.643	674079.9087	0.5	U-238	1.6	pCi/g	Pre
549-I8-1	3022329.405	674089.599	0.5	U-238	2	pCi/g	Pre
550-C2-1	3022327.919	674065.9766	0.5	U-238	1.3	pCi/g	Pre
584-I8-1	3022178.975	674163.0122	0.5	U-238	14.3	pCi/g	Pre
585-C2-1	3022177.489	674139.3898	0.5	U-238	1.2	pCi/g	Pre
585-I8-1	3022205.084	674143.1092	0.5	U-238	4.4	pCi/g	Pre
586-B1-1	3022199	674118.8669	0.5	U-238	0.9	pCi/g	Pre
586-F3-1	3022212.174	674125.327	0.5	U-238	2.2	pCi/g	Pre
586-I8-1	3022231.194	674123.2061	0.5	U-238	4.1	pCi/g	Pre
587-B2-1	3022227.72	674096.9735	0.5	U-238	1.8	pCi/g	Pre
587-G8-1	3022253.327	674098.0827	0.5	U-238	1.8	pCi/g	Pre
588-C2-1	3022255.818	674079.6807	0.5	U-238	1.5	pCi/g	Pre
588-I8-1	3022283.413	674083.4	0.5	U-238	1.7	pCi/g	Pre
589-C2-1	3022281.927	674059.7776	0.5	U-238	1.1	pCi/g	Pre
589-I8-1	3022309.523	674063.497	0.5	U-238	1.5	pCi/g	Pre
590-C2-1	3022308.037	674039.8746	0.5	U-238	1.1	pCi/g	Pre
591-C2-1	3022296.37	674039.8746	0.5	U-238	1.8	pCi/g	Pre
624-I8-1	3022159.092	674136.9102	0.5	U-238	1.6	pCi/g	Pre
625-I8-1	3022185.202	674117.0072	0.5	U-238	0.9	pCi/g	Pre
626-I6-1	3022206.09	674101.0847	0.5	U-238	0.3	pCi/g	Pre
627-I8-1	3022237.421	674077.2011	0.5	U-238	1.2	pCi/g	Pre
628-C2-1	3022235.935	674053.5787	0.5	U-238	1.1	pCi/g	Pre
628-I8-1	3022263.531	674057.2981	0.5	U-238	1.4	pCi/g	Pre
629-C2-1	3022262.045	674033.6757	0.5	U-238	2.1	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
629-I8-1	3022289.64	674037.395	0.5	U-238	2.2	pCi/g	Pre
630-C2-1	3022288.155	674013.7726	0.5	U-238	1.4	pCi/g	Pre
666-J9-1	3022222.138	674051.719	0.5	U-238	1.7	pCi/g	Pre
667-J9-1	3022248.247	674031.816	0.5	U-238	2.5	pCi/g	Pre
668-I8-1	3022269.758	674011.293	0.5	U-238	4.6	pCi/g	Pre
*****	3022596.857	674310.6822	1.5	U-238	1.5	*****	*****
113-D5-2	3022706.877	674276.3246	1.5	U-238	0	pCi/g	Pre
114-C2-2	3022723.166	674259.7822	1.5	U-238	1.3	pCi/g	Pre
114-G8-2	3022746.785	674258.2812	1.5	U-238	0	pCi/g	Pre
115-I8-2	3022776.871	674243.5986	1.5	U-238	0.5	pCi/g	Pre
116-D1-2	3022414.891	674204.6736	1.5	U-238	0.8	pCi/g	Pre
140-B6-2	3022581.191	674322.624	1.5	U-238	1.5	pCi/g	Pre
142-C2-2	3022624.955	674293.3894	1.5	U-238	1.6	pCi/g	Pre
142-H8-2	3022650.562	674294.4985	1.5	U-238	1.4	pCi/g	Pre
143-E1-2	3022652.43	674280.697	1.5	U-238	1.2	pCi/g	Pre
143-J8-2	3022680.648	674279.8159	1.5	U-238	0.9	pCi/g	Pre
144-C2-2	3022677.174	674253.5833	1.5	U-238	1	pCi/g	Pre
144-I8-2	3022704.769	674257.3027	1.5	U-238	1.1	pCi/g	Pre
145-D3-2	3022707.883	674234.3001	1.5	U-238	1.5	pCi/g	Pre
145-I1-2	3022712.602	674251.3317	1.5	U-238	1	pCi/g	Pre
146-B2-2	3022295.957	674193.2543	1.5	U-238	0.8	pCi/g	Pre
146-I7-2	3022295.957	674078.1753	1.5	U-238	0.3	pCi/g	Pre
169-C2-2	3022448.415	674386.7056	1.5	U-238	1.1	pCi/g	Pre
170-C2-2	3022474.524	674366.8025	1.5	U-238	0.8	pCi/g	Pre
171-C2-2	3022500.634	674346.8995	1.5	U-238	0.7	pCi/g	Pre
171-H8-2	3022526.241	674348.0087	1.5	U-238	0.4	pCi/g	Pre
172-C2-2	3022526.743	674326.9965	1.5	U-238	0.8	pCi/g	Pre
172-I8-2	3022554.339	674330.7158	1.5	U-238	0.8	pCi/g	Pre
173-C2-2	3022552.853	674307.0934	1.5	U-238	2.6	pCi/g	Pre
173-I7-2	3022577.837	674312.8031	1.5	U-238	1	pCi/g	Pre
174-B1-2	3022574.363	674286.5705	1.5	U-238	0	pCi/g	Pre
174-I8-2	3022606.558	674290.9098	1.5	U-238	0.4	pCi/g	Pre
175-B2-2	3022603.084	674264.6772	1.5	U-238	0.7	pCi/g	Pre
175-G8-2	3022628.691	674265.7863	1.5	U-238	0	pCi/g	Pre
176-C2-2	3022631.182	674247.3843	1.5	U-238	1.5	pCi/g	Pre
176-J9-2	3022663.376	674251.7236	1.5	U-238	1.2	pCi/g	Pre
177-C2-2	3022657.291	674227.4813	1.5	U-238	1.4	pCi/g	Pre
177-E8-2	3022676.934	674220.7599	1.5	U-238	1	pCi/g	Pre
178-C2-2	3022683.401	674207.5783	1.5	U-238	0.7	pCi/g	Pre
178-I8-2	3022710.996	674211.2976	1.5	U-238	1.1	pCi/g	Pre
179-D2-2	3022711.499	674190.2854	1.5	U-238	0.6	pCi/g	Pre
200-C8-2	3022365.869	674408.3709	1.5	U-238	1.4	pCi/g	Pre
201-C1-2	3022373.702	674402.4	1.5	U-238	0.4	pCi/g	Pre
201-I8-2	3022403.908	674404.129	1.5	U-238	0.9	pCi/g	Pre
202-C2-2	3022402.423	674380.5066	1.5	U-238	0.2	pCi/g	Pre
202-G8-2	3022426.041	674379.0056	1.5	U-238	0.4	pCi/g	Pre
203-C2-2	3022428.532	674360.6036	1.5	U-238	0.5	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
203-I8-2	3022456.128	674364.323	1.5	U-238	0	pCi/g	Pre
204-C2-2	3022454.642	674340.7006	1.5	U-238	0.6	pCi/g	Pre
204-I8-2	3022482.237	674344.4199	1.5	U-238	0.3	pCi/g	Pre
205-C3-2	3022483.362	674318.8072	1.5	U-238	0.5	pCi/g	Pre
205-I8-2	3022508.347	674324.5169	1.5	U-238	0.9	pCi/g	Pre
206-C2-2	3022506.861	674300.8945	1.5	U-238	0.6	pCi/g	Pre
206-I8-2	3022534.456	674304.6139	1.5	U-238	0.7	pCi/g	Pre
206-I9-2	3022537.067	674302.6236	1.5	U-238	2	pCi/g	Pre
207-B2-2	3022530.982	674278.3813	1.5	U-238	1.3	pCi/g	Pre
207-H8-2	3022341.859	674302.004	1.5	U-238	0.8	pCi/g	Pre
208-I8-2	3022586.675	674264.8078	1.5	U-238	1.5	pCi/g	Pre
209-I8-2	3022612.785	674244.9048	1.5	U-238	1	pCi/g	Pre
210-J8-2	3022640.883	674227.6119	1.5	U-238	1.3	pCi/g	Pre
234-I7-2	3022329.196	674419.8234	1.5	U-238	0.6	pCi/g	Pre
235-B1-2	3022325.722	674393.5908	1.5	U-238	1	pCi/g	Pre
235-I9-2	3022360.527	674395.9398	1.5	U-238	0.5	pCi/g	Pre
236-C1-2	3022353.82	674376.298	1.5	U-238	0.7	pCi/g	Pre
236-I8-2	3022384.026	674378.0271	1.5	U-238	1	pCi/g	Pre
237-C2-2	3022382.54	674354.4046	1.5	U-238	0.6	pCi/g	Pre
237-I8-2	3022410.136	674358.124	1.5	U-238	0	pCi/g	Pre
238-C2-2	3022408.65	674334.5016	1.5	U-238	0.5	pCi/g	Pre
238-I8-2	3022436.245	674338.221	1.5	U-238	0.9	pCi/g	Pre
239-C2-2	3022434.76	674314.5986	1.5	U-238	0.3	pCi/g	Pre
239-I8-2	3022462.355	674318.3179	1.5	U-238	0.7	pCi/g	Pre
240-B1-2	3022456.27	674294.0756	1.5	U-238	0.7	pCi/g	Pre
240-I8-2	3022488.464	674298.4149	1.5	U-238	1.8	pCi/g	Pre
241-D2-2	3022488.967	674277.4027	1.5	U-238	1.1	pCi/g	Pre
241-H8-2	3022512.586	674275.9017	1.5	U-238	1.2	pCi/g	Pre
270-C2-2	3022284.329	674388.0118	1.5	U-238	7.4	pCi/g	Pre
270-F6-2	3022300.738	674387.8811	1.5	U-238	0.9	pCi/g	Pre
271-C2-2	3022310.439	674368.1087	1.5	U-238	0.1	pCi/g	Pre
271-I8-2	3022338.034	674371.8281	1.5	U-238	0.8	pCi/g	Pre
272-E2-2	3022340.525	674353.4261	1.5	U-238	0.5	pCi/g	Pre
272-I9-2	3022366.754	674349.9348	1.5	U-238	0	pCi/g	Pre
273-C2-2	3022362.658	674328.3027	1.5	U-238	0.5	pCi/g	Pre
273-I8-2	3022390.253	674332.022	1.5	U-238	0.6	pCi/g	Pre
274-C2-2	3022388.768	674308.3996	1.5	U-238	1.5	pCi/g	Pre
274-I8-2	3022416.363	674312.119	1.5	U-238	0.6	pCi/g	Pre
275-C2-2	3022414.877	674288.4966	1.5	U-238	0.6	pCi/g	Pre
275-I8-2	3022442.472	674292.216	1.5	U-238	0.3	pCi/g	Pre
276-C1-2	3022438.376	674270.5839	1.5	U-238	0.8	pCi/g	Pre
276-G8-2	3022464.605	674267.0925	1.5	U-238	0.8	pCi/g	Pre
277-F5-2	3022480.894	674250.5502	1.5	U-238	1.2	pCi/g	Pre
278-F5-2	3022584.545	674250.5502	1.5	U-238	5.8	pCi/g	Pre
307-C2-2	3022264.447	674361.9098	1.5	U-238	1.6	pCi/g	Pre
307-I6-2	3022286.82	674369.6098	1.5	U-238	1.4	pCi/g	Pre
308-C2-2	3022290.556	674342.0067	1.5	U-238	1.1	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
308-I8-2	3022318.152	674345.7261	1.5	U-238	0.8	pCi/g	Pre
309-C2-2	3022316.666	674322.1037	1.5	U-238	0.5	pCi/g	Pre
309-I8-2	3022344.261	674325.8231	1.5	U-238	1	pCi/g	Pre
310-C2-2	3022342.776	674302.2007	1.5	U-238	0	pCi/g	Pre
310-E8-2	3022362.418	674295.4792	1.5	U-238	0.2	pCi/g	Pre
311-C2-2	3022368.885	674282.2976	1.5	U-238	0.9	pCi/g	Pre
311-I8-2	3022396.48	674286.017	1.5	U-238	0.8	pCi/g	Pre
312-C2-2	3022394.995	674262.3946	1.5	U-238	0	pCi/g	Pre
312-I8-2	3022422.59	674266.114	1.5	U-238	0.9	pCi/g	Pre
313-F5-2	3022434.902	674244.3512	1.5	U-238	0.7	pCi/g	Pre
345-I8-2	3022272.16	674339.5272	1.5	U-238	0.7	pCi/g	Pre
346-C2-2	3022270.674	674315.9047	1.5	U-238	0.5	pCi/g	Pre
346-I8-2	3022298.269	674319.6241	1.5	U-238	0	pCi/g	Pre
347-C2-2	3022296.784	674296.0017	1.5	U-238	0.5	pCi/g	Pre
347-I8-2	3022324.379	674299.7211	1.5	U-238	0.1	pCi/g	Pre
348-C2-2	3022322.893	674276.0987	1.5	U-238	0.1	pCi/g	Pre
348-I4-2	3022340.044	674287.7793	1.5	U-238	0.6	pCi/g	Pre
349-C2-2	3022349.003	674256.1956	1.5	U-238	0.5	pCi/g	Pre
349-I8-2	3022376.598	674259.915	1.5	U-238	0.7	pCi/g	Pre
350-C2-2	3022375.112	674236.2926	1.5	U-238	0.8	pCi/g	Pre
350-I8-2	3022402.707	674240.012	1.5	U-238	0.4	pCi/g	Pre
385-E2-2	3022228.658	674314.9262	1.5	U-238	3	pCi/g	Pre
385-I8-2	3022252.277	674313.4252	1.5	U-238	0.1	pCi/g	Pre
386-C2-2	3022250.792	674289.8028	1.5	U-238	0.7	pCi/g	Pre
386-I8-2	3022278.387	674293.5221	1.5	U-238	0	pCi/g	Pre
387-C2-2	3022276.901	674269.8997	1.5	U-238	0.4	pCi/g	Pre
387-I8-2	3022304.496	674273.6191	1.5	U-238	0.7	pCi/g	Pre
388-C2-2	3022303.011	674249.9967	1.5	U-238	1	pCi/g	Pre
388-I5-2	3022322.773	674259.687	1.5	U-238	0.6	pCi/g	Pre
389-C2-2	3022329.12	674230.0937	1.5	U-238	1.5	pCi/g	Pre
389-I8-2	3022356.716	674233.813	1.5	U-238	0	pCi/g	Pre
390-C2-2	3022355.23	674210.1906	1.5	U-238	2.4	pCi/g	Pre
390-I8-2	3022382.825	674213.91	1.5	U-238	1.4	pCi/g	Pre
425-I8-2	3022232.395	674287.3232	1.5	U-238	1.2	pCi/g	Pre
426-C2-2	3022230.909	674263.7008	1.5	U-238	0.3	pCi/g	Pre
426-I8-2	3022258.504	674267.4201	1.5	U-238	0	pCi/g	Pre
427-C2-2	3022257.019	674243.7977	1.5	U-238	1.2	pCi/g	Pre
427-I8-2	3022284.614	674247.5171	1.5	U-238	0.8	pCi/g	Pre
428-C2-2	3022283.128	674223.8947	1.5	U-238	0.8	pCi/g	Pre
428-I5-2	3022302.891	674233.585	1.5	U-238	1	pCi/g	Pre
429-C2-2	3022309.238	674203.9917	1.5	U-238	0.6	pCi/g	Pre
429-I8-2	3022336.833	674207.711	1.5	U-238	0.8	pCi/g	Pre
430-C2-2	3022335.347	674184.0886	1.5	U-238	7.9	pCi/g	Pre
430-I8-2	3022362.943	674187.808	1.5	U-238	2	pCi/g	Pre
465-I8-2	3022212.512	674261.2212	1.5	U-238	2.2	pCi/g	Pre
466-C2-2	3022211.027	674237.5988	1.5	U-238	1	pCi/g	Pre
466-I8-2	3022238.622	674241.3182	1.5	U-238	1.6	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
467-C2-2	3022237.136	674217.6957	1.5	U-238	1.3	pCi/g	Pre
467-I8-2	3022264.732	674221.4151	1.5	U-238	0.7	pCi/g	Pre
468-F2-2	3022269.211	674205.6233	1.5	U-238	0	pCi/g	Pre
468-I8-2	3022290.841	674201.5121	1.5	U-238	0.5	pCi/g	Pre
469-C2-2	3022289.355	674177.8897	1.5	U-238	0.8	pCi/g	Pre
469-I8-2	3022316.951	674181.609	1.5	U-238	1.8	pCi/g	Pre
470-C2-2	3022315.465	674157.9866	1.5	U-238	1.1	pCi/g	Pre
471-F5-2	3022355.372	674139.9433	1.5	U-238	2.5	pCi/g	Pre
505-I8-2	3022218.74	674215.2162	1.5	U-238	1	pCi/g	Pre
506-C2-2	3022217.254	674191.5938	1.5	U-238	0.4	pCi/g	Pre
506-I8-2	3022244.849	674195.3131	1.5	U-238	0.8	pCi/g	Pre
507-B1-2	3022238.764	674171.0708	1.5	U-238	1.1	pCi/g	Pre
508-B1-2	3022264.874	674151.1678	1.5	U-238	0.3	pCi/g	Pre
508-I8-2	3022297.068	674155.5071	1.5	U-238	0.9	pCi/g	Pre
509-C2-2	3022295.583	674131.8847	1.5	U-238	0.5	pCi/g	Pre
509-I8-2	3022323.178	674135.604	1.5	U-238	0	pCi/g	Pre
510-C5-2	3022329.525	674106.0107	1.5	U-238	0	pCi/g	Pre
544-D5-2	3022181.083	674182.0341	1.5	U-238	1.2	pCi/g	Pre
544-I9-2	3022201.468	674187.1239	1.5	U-238	1	pCi/g	Pre
545-C3-2	3022199.982	674163.5015	1.5	U-238	1	pCi/g	Pre
545-I8-2	3022224.967	674169.2111	1.5	U-238	2.3	pCi/g	Pre
546-C2-2	3022223.481	674145.5887	1.5	U-238	1.1	pCi/g	Pre
546-I8-2	3022251.076	674149.3081	1.5	U-238	0.6	pCi/g	Pre
547-D1-2	3022248.968	674130.2862	1.5	U-238	0	pCi/g	Pre
547-I6-2	3022271.964	674133.3857	1.5	U-238	1	pCi/g	Pre
548-C4-2	3022280.922	674101.8021	1.5	U-238	1.6	pCi/g	Pre
549-C5-2	3022309.643	674079.9087	1.5	U-238	0.6	pCi/g	Pre
549-I8-2	3022329.405	674089.599	1.5	U-238	0.1	pCi/g	Pre
550-C2-2	3022327.919	674065.9766	1.5	U-238	0.9	pCi/g	Pre
584-I8-2	3022178.975	674163.0122	1.5	U-238	4.5	pCi/g	Pre
585-C2-2	3022177.489	674139.3898	1.5	U-238	0.9	pCi/g	Pre
585-I8-2	3022205.084	674143.1092	1.5	U-238	0.7	pCi/g	Pre
586-F3-2	3022212.174	674125.327	1.5	U-238	1.6	pCi/g	Pre
586-I8-2	3022231.194	674123.2061	1.5	U-238	0.9	pCi/g	Pre
588-C2-2	3022255.818	674079.6807	1.5	U-238	0.9	pCi/g	Pre
588-I8-2	3022283.413	674083.4	1.5	U-238	0.9	pCi/g	Pre
589-I8-2	3022309.523	674063.497	1.5	U-238	0.5	pCi/g	Pre
590-C2-2	3022308.037	674039.8746	1.5	U-238	0.6	pCi/g	Pre
591-C2-2	3022296.37	674039.8746	1.5	U-238	0.5	pCi/g	Pre
628-C2-2	3022235.935	674053.5787	1.5	U-238	2.2	pCi/g	Pre
629-I8-2	3022289.64	674037.395	1.5	U-238	0	pCi/g	Pre
630-C2-2	3022288.155	674013.7726	1.5	U-238	3	pCi/g	Pre
668-I8-2	3022269.758	674011.293	1.5	U-238	0.6	pCi/g	Pre
202-C2-3	3022402.423	674380.5066	2.5	U-238	0.8	pCi/g	Pre
209-I8-3	3022612.785	674244.9048	2.5	U-238	1.1	pCi/g	Pre
234-I7-3	3022329.196	674419.8234	2.5	U-238	0.9	pCi/g	Pre
235-B1-3	3022325.722	674393.5908	2.5	U-238	0.7	pCi/g	Pre

Historical Dataset, Survey Unit 7

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
237-C2-3	3022382.54	674354.4046	2.5	U-238	1	pCi/g	Pre
273-C2-3	3022362.658	674328.3027	2.5	U-238	1.1	pCi/g	Pre
508-I8-3	3022297.068	674155.5071	2.5	U-238	0.5	pCi/g	Pre
544-D5-3	3022181.083	674182.0341	2.5	U-238	3	pCi/g	Pre
545-C3-3	3022199.982	674163.5015	2.5	U-238	0.5	pCi/g	Pre
547-I6-3	3022271.964	674133.3857	2.5	U-238	1.2	pCi/g	Pre
585-C2-3	3022177.489	674139.3898	2.5	U-238	0.3	pCi/g	Pre
585-I8-3	3022205.084	674143.1092	2.5	U-238	0.7	pCi/g	Pre
586-F3-3	3022212.174	674125.327	2.5	U-238	0.5	pCi/g	Pre
590-C2-3	3022308.037	674039.8746	2.5	U-238	0.8	pCi/g	Pre
630-C2-3	3022288.155	674013.7726	2.5	U-238	1.1	pCi/g	Pre
585-C2-4	3022177.489	674139.3898	3.5	U-238	0.6	pCi/g	Pre
545-C3-4	3022199.982	674163.5015	3.5	U-238	1.7	pCi/g	Pre
585-I8-4	3022205.084	674143.1092	3.5	U-238	0.3	pCi/g	Pre
547-I6-4	3022271.964	674133.3857	3.5	U-238	0.7	pCi/g	Pre
508-I8-4	3022297.068	674155.5071	3.5	U-238	0.9	pCi/g	Pre
234-I7-4	3022329.196	674419.8234	3.5	U-238	0.4	pCi/g	Pre

Appendix A.4

Historical Dataset

Survey Unit 12

Historical Dataset, Survey Unit 12

Sample ID#	Sample Location		Sample Depth (ft)		Contaminant Name	Analytic Result	Units	Period
	Easting	Northing	As Taken	In Model				
5706	3021923.85	674155.16	0	3	Am-241	-1.15	pCi/g	Post
5721	3021922.46	674139.05	0	3	Am-241	-1.13	pCi/g	Post
5716	3021909.4	674120.46	0	3	Am-241	-0.962	pCi/g	Post
5718	3021910.17	674133.97	0	3	Am-241	-0.672	pCi/g	Post
5707	3021937.24	674172.36	0	3	Am-241	-0.443	pCi/g	Post
742-J6-4	3022122.321	674045.292	3.5	6.5	Am-241	-0.43	pCi/g	Pre
5711	3021952	674190.42	0	3	Am-241	-0.322	pCi/g	Post
703-C2-4	3022117.842	674061.0838	3.5	6.5	Am-241	-0.24	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Am-241	-0.18	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Am-241	-0.09	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Am-241	0.02	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Am-241	0.03	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Am-241	0.04	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Am-241	0.05	pCi/g	Pre
5958	3022007.14	674240.822	0	3	Am-241	0.06	pCi/g	Post
704-C1-4	3022141.341	674043.1711	3.5	6.5	Am-241	0.08	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Am-241	0.09	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Am-241	0.1	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Am-241	0.1	pCi/g	Pre
*****	3022015.902	674230.798	0	3	Am-241	0.11275	*****	*****
5960	3022006.175	674231.839	0	3	Am-241	0.133	pCi/g	Post
02-S-145	3022062.029	674058.2456	3	6	Am-241	0.15	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Am-241	0.16	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Am-241	0.17	pCi/g	Pre
*****	3021948.22	674177.27	0	3	Am-241	0.2235	*****	*****
703-C7-3	3022130.897	674051.1323	2.5	5.5	Am-241	0.23	pCi/g	Pre
*****	3021966.56	674208.22	0	3	Am-241	0.24083	*****	*****
742-D7-4	3022113.003	674027.6405	3.5	6.5	Am-241	0.27	pCi/g	Pre
*****	3021996.418	674233.128	0	3	Am-241	0.38125	*****	*****
5723	3021935.74	674158.37	0	3	Am-241	0.414	pCi/g	Post
742-J6-3	3022122.321	674045.292	2.5	5.5	Am-241	0.45	pCi/g	Pre
5709	3021964.65	674195.31	0	3	Am-241	0.632	pCi/g	Post
5959	3021997.056	674242.393	0	3	Am-241	0.931	pCi/g	Post
742-D7-1	3022113.003	674027.6405	0.5	3.5	Am-241	1.05	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Am-241	1.24	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Am-241	1.42	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Am-241	1.66	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Am-241	2.08	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Am-241	3.01	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Am-241	3.17	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Am-241	10	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Am-241	12	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Pu-238	-0.03	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Pu-238	0	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Pu-238	0.01	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Pu-238	0.01	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Pu-238	0.02	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Pu-238	0.03	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Pu-238	0.06	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Pu-238	0.06	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Pu-238	0.07	pCi/g	Pre

Historical Dataset, Survey Unit 12

	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
02-S-145	3022062.029	674058.2456	3	6	Pu-238	0.07	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Pu-238	0.08	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Pu-238	0.09	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Pu-238	0.1	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Pu-238	0.13	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Pu-238	0.13	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Pu-238	0.13	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Pu-238	0.13	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Pu-238	0.15	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Pu-238	0.19	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Pu-238	0.22	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Pu-238	0.31	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Pu-238	0.35	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Pu-238	0.37	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Pu-238	0.47	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Pu-238	1.7	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Pu-238	2.2	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Pu-238	2.4	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Pu-239/240	0.02	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Pu-239/240	0.04	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Pu-239/240	0.05	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Pu-239/240	0.05	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Pu-239/240	0.07	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Pu-239/240	0.09	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Pu-239/240	0.12	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Pu-239/240	0.13	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Pu-239/240	0.17	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Pu-239/240	0.17	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Pu-239/240	0.24	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Pu-239/240	0.33	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Pu-239/240	0.35	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	Pu-239/240	0.41	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Pu-239/240	0.45	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Pu-239/240	0.66	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Pu-239/240	1.3	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Pu-239/240	2.3	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Pu-239/240	2.3	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Pu-239/240	2.9	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Pu-239/240	4.8	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Pu-239/240	5.72	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Pu-239/240	6.2	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Pu-239/240	9.6	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Pu-239/240	33	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Pu-239/240	40	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Pu-239/240	46	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Pu-241	0.02	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Pu-241	0.07	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Pu-241	0.08	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Pu-241	0.11	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Pu-241	0.21	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Pu-241	0.28	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Pu-241	0.28	pCi/g	Pre

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	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
704-C1-3	3022141.341	674043.1711	2.5	5.5	Pu-241	0.54	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Pu-241	0.57	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Pu-241	1.08	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Pu-241	2.13	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Pu-241	3.77	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Pu-241	3.77	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Pu-241	4.75	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	Pu-241	5.85	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Pu-241	6.57	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Pu-241	7.45	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Pu-241	7.87	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Pu-241	9.38	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Pu-241	10.17	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Pu-241	11.8	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Pu-241	15.74	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Pu-241	16.8	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Pu-241	18.5	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Pu-241	61.2	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Pu-241	65.6	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Pu-241	80	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Pu-242	0	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Pu-242	0	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Pu-242	0	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Pu-242	0	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Pu-242	0	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Pu-242	0	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Pu-242	0	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Pu-242	0	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Pu-242	0	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Pu-242	0	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Pu-242	0	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Pu-242	0	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Pu-242	0	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Pu-242	0	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Pu-242	0	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Pu-242	0	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Pu-242	0	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Pu-242	0	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Pu-242	0.02	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Pu-242	0.02	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Pu-242	0.03	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Pu-242	0.04	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Pu-242	0.04	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	Pu-242	0.05	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Pu-242	0.07	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Pu-242	0.08	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Pu-242	0.09	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Tc-99	-1.2	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Tc-99	-0.6	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Tc-99	-0.3	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Tc-99	0.9	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Tc-99	0.9	pCi/g	Pre

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	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
703-C2-3	3022117.842	674061.0838	2.5	5.5	Tc-99	1.2	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Tc-99	1.4	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Tc-99	1.9	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Tc-99	2	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Tc-99	2	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Tc-99	2.1	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Tc-99	2.2	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Tc-99	2.2	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Tc-99	2.3	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	Tc-99	3	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Tc-99	3.4	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Tc-99	3.5	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Tc-99	4	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Tc-99	4.2	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Tc-99	4.4	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Tc-99	4.9	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Tc-99	5.1	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Tc-99	5.1	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Tc-99	7.7	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Tc-99	7.8	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Tc-99	10	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Tc-99	12	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Th-230	0.2	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Th-230	0.3	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	Th-230	0.3	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	Th-230	0.4	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	Th-230	0.4	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Th-230	0.5	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Th-230	0.5	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	Th-230	0.5	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Th-230	0.6	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Th-230	0.6	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	Th-230	0.6	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Th-230	0.6	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Th-230	0.6	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Th-230	0.7	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Th-230	0.7	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Th-230	0.7	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	Th-230	0.9	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	Th-230	0.9	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Th-230	0.9	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	Th-230	1.1	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Th-230	1.7	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Th-230	1.9	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Th-230	3	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Th-230	4.1	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Th-230	5	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Th-230	5.5	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Th-230	5.9	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	Th-232	0.1	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	Th-232	0.3	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	Th-232	0.3	pCi/g	Pre

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	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
704-C1-4	3022141.341	674043.1711	3.5	6.5	Th-232	0.4	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	Th-232	0.5	pCi/g	Pre
5718	3021910.17	674133.97	0	3	Th-232	0.595	pCi/g	Post
704-C1-3	3022141.341	674043.1711	2.5	5.5	Th-232	0.6	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	Th-232	0.6	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	Th-232	0.7	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	Th-232	0.9	pCi/g	Pre
5707	3021937.24	674172.36	0	3	Th-232	0.968	pCi/g	Post
02-S-042	3022012.398	674182.7204	3	6	Th-232	1	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	Th-232	1	pCi/g	Pre
*****	3021996.418	674233.128	0	3	Th-232	1.02	*****	*****
703-C7-3	3022130.897	674051.1323	2.5	5.5	Th-232	1.2	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	Th-232	1.2	pCi/g	Pre
5709	3021964.65	674195.31	0	3	Th-232	1.332	pCi/g	Post
02-S-145	3022062.029	674058.2456	3	6	Th-232	1.4	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	Th-232	1.5	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	Th-232	1.5	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	Th-232	1.5	pCi/g	Pre
*****	3022015.902	674230.798	0	3	Th-232	1.5285	*****	*****
5723	3021935.74	674158.37	0	3	Th-232	1.533	pCi/g	Post
5960	3022006.175	674231.839	0	3	Th-232	1.597	pCi/g	Post
02-S-054	3022075.826	674060.1053	3	6	Th-232	1.7	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	Th-232	1.7	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	Th-232	1.7	pCi/g	Pre
5959	3021997.056	674242.393	0	3	Th-232	1.726	pCi/g	Post
5706	3021923.85	674155.16	0	3	Th-232	1.788	pCi/g	Post
02-S-142	3021999.366	674106.0129	2.5	5.5	Th-232	1.8	pCi/g	Pre
*****	3021966.56	674208.22	0	3	Th-232	1.82667	*****	*****
5958	3022007.14	674240.822	0	3	Th-232	1.869	pCi/g	Post
5721	3021922.46	674139.05	0	3	Th-232	1.964	pCi/g	Post
5716	3021909.4	674120.46	0	3	Th-232	2.016	pCi/g	Post
*****	3021948.22	674177.27	0	3	Th-232	2.35233	*****	*****
5711	3021952	674190.42	0	3	Th-232	2.494	pCi/g	Post
02-S-148	3021994.744	674192.052	3	6	Th-232	2.8	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	Th-232	5.4	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	Th-232	8.2	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	Th-232	9.6	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	Th-232	10	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	Th-232	11.5	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	U-233/234	0.1	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	U-233/234	1.4	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	U-233/234	1.5	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	U-233/234	1.8	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	U-233/234	2.1	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	U-233/234	3.4	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	U-233/234	3.6	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	U-233/234	3.9	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	U-233/234	5.2	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	U-233/234	6	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	U-233/234	7.5	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	U-233/234	8.6	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	U-233/234	12.4	pCi/g	Pre

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	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
02-S-154	3022088.739	674120.4011	3	6	U-233/234	14.1	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	U-233/234	15	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	U-233/234	15.1	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	U-233/234	18	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	U-233/234	37	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	U-233/234	62	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	U-233/234	68.9	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	U-233/234	89	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	U-233/234	93	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	U-233/234	104.4	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	U-233/234	120	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	U-233/234	170	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	U-233/234	200	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	U-233/234	210	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	U-235	0	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	U-235	0	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	U-235	0	pCi/g	Pre
5709	3021964.65	674195.31	0	3	U-235	0.071	pCi/g	Post
5718	3021910.17	674133.97	0	3	U-235	0.074	pCi/g	Post
5723	3021935.74	674158.37	0	3	U-235	0.076	pCi/g	Post
5958	3022007.14	674240.822	0	3	U-235	0.089	pCi/g	Post
*****	3021996.418	674233.128	0	3	U-235	0.09525	*****	*****
*****	3022015.902	674230.798	0	3	U-235	0.097	*****	*****
02-S-042	3022012.398	674182.7204	3	6	U-235	0.1	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	U-235	0.1	pCi/g	Pre
5960	3022006.175	674231.839	0	3	U-235	0.146	pCi/g	Post
5707	3021937.24	674172.36	0	3	U-235	0.152	pCi/g	Post
5959	3021997.056	674242.393	0	3	U-235	0.179	pCi/g	Post
5706	3021923.85	674155.16	0	3	U-235	0.18	pCi/g	Post
02-S-054	3022075.826	674060.1053	3	6	U-235	0.2	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	U-235	0.2	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	U-235	0.2	pCi/g	Pre
*****	3021966.56	674208.22	0	3	U-235	0.21133	*****	*****
*****	3021948.22	674177.27	0	3	U-235	0.21533	*****	*****
02-S-148	3021994.744	674192.052	3	6	U-235	0.3	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	U-235	0.3	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	U-235	0.3	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	U-235	0.4	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	U-235	0.4	pCi/g	Pre
5711	3021952	674190.42	0	3	U-235	0.493	pCi/g	Post
02-S-142	3021999.366	674106.0129	2.5	5.5	U-235	0.5	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	U-235	0.5	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	U-235	0.5	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	U-235	0.5	pCi/g	Pre
5721	3021922.46	674139.05	0	3	U-235	0.516	pCi/g	Post
703-C7-3	3022130.897	674051.1323	2.5	5.5	U-235	1.3	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	U-235	1.4	pCi/g	Pre
5716	3021909.4	674120.46	0	3	U-235	1.5	pCi/g	Post
02-S-046	3022091.23	674101.9991	3	6	U-235	1.8	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	U-235	2.3	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	U-235	3.6	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	U-235	4	pCi/g	Pre

Historical Dataset, Survey Unit 12

	Sample Location		Sample Depth (ft)		Contaminant	Analytic		
742-D7-2	3022113.003	674027.6405	1.5	4.5	U-235	4.1	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	U-235	4.9	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	U-235	6.4	pCi/g	Pre
703-C7-1	3022130.897	674051.1323	0.5	3.5	U-235	6.5	pCi/g	Pre
703-C2-4	3022117.842	674061.0838	3.5	6.5	U-238	0.5	pCi/g	Pre
742-D7-4	3022113.003	674027.6405	3.5	6.5	U-238	0.5	pCi/g	Pre
703-C2-3	3022117.842	674061.0838	2.5	5.5	U-238	0.7	pCi/g	Pre
742-J6-4	3022122.321	674045.292	3.5	6.5	U-238	0.7	pCi/g	Pre
02-S-139	3021954.979	674139.848	3	6	U-238	0.8	pCi/g	Pre
704-C1-4	3022141.341	674043.1711	3.5	6.5	U-238	0.8	pCi/g	Pre
02-S-042	3022012.398	674182.7204	3	6	U-238	0.9	pCi/g	Pre
704-C1-3	3022141.341	674043.1711	2.5	5.5	U-238	0.9	pCi/g	Pre
742-D7-3	3022113.003	674027.6405	2.5	5.5	U-238	0.9	pCi/g	Pre
742-J6-3	3022122.321	674045.292	2.5	5.5	U-238	1.1	pCi/g	Pre
02-S-054	3022075.826	674060.1053	3	6	U-238	1.3	pCi/g	Pre
02-S-148	3021994.744	674192.052	3	6	U-238	1.4	pCi/g	Pre
02-S-154	3022088.739	674120.4011	3	6	U-238	1.4	pCi/g	Pre
703-C2-5	3022117.842	674061.0838	4.5	7.5	U-238	1.7	pCi/g	Pre
703-C7-3	3022130.897	674051.1323	2.5	5.5	U-238	2.2	pCi/g	Pre
02-S-046	3022091.23	674101.9991	3	6	U-238	2.3	pCi/g	Pre
02-S-142	3021999.366	674106.0129	2.5	5.5	U-238	2.4	pCi/g	Pre
02-S-151	3022039.131	674158.2168	2.5	5.5	U-238	2.5	pCi/g	Pre
703-C7-2	3022130.897	674051.1323	1.5	4.5	U-238	2.5	pCi/g	Pre
704-C1-2	3022141.341	674043.1711	1.5	4.5	U-238	2.7	pCi/g	Pre
02-S-145	3022062.029	674058.2456	3	6	U-238	4.2	pCi/g	Pre
742-D7-2	3022113.003	674027.6405	1.5	4.5	U-238	5.4	pCi/g	Pre
704-C1-1	3022141.341	674043.1711	0.5	3.5	U-238	8.8	pCi/g	Pre
742-D7-1	3022113.003	674027.6405	0.5	3.5	U-238	9.7	pCi/g	Pre
742-J6-2	3022122.321	674045.292	1.5	4.5	U-238	10	pCi/g	Pre
742-J6-1	3022122.321	674045.292	0.5	3.5	U-238	10.5	pCi/g	Pre

Appendix A.5

Historical Dataset

Survey Unit 16

Historical Dataset, Survey Unit 16

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytical Result	Units	Period
	Easting	Northing					
5247	3022045	673799	7.6	Am-241	0.092	pCi/g	Post
5248	3022047	673802	7.6	Am-241	1.5	pCi/g	Post
5213	3022051	673794	7.6	Am-241	2.8	pCi/g	Post
5253	3022054	673811	7.6	Am-241	2.3	pCi/g	Post
5250	3022056	673790	7.6	Am-241	3.4	pCi/g	Post
5254	3022056	673814	7.6	Am-241	2.2	pCi/g	Post
5249	3022058	673793	7.6	Am-241	1.6	pCi/g	Post
5052	3022058	673803	7.6	Am-241	2.1	pCi/g	Post
5231	3022060	673806	7.6	Am-241	2.7	pCi/g	Post
5245	3022061	673786	7.6	Am-241	1.2	pCi/g	Post
5088	3022065	673813	7.6	Am-241	1.8	pCi/g	Post
5228	3022066	673802	7.6	Am-241	1.3	pCi/g	Post
5087	3022067	673816	7.6	Am-241	8.3	pCi/g	Post
5252	3022068	673781	7.6	Am-241	2	pCi/g	Post
5233	3022068	673795	7.6	Am-241	1.6	pCi/g	Post
5227	3022068	673805	7.6	Am-241	1.2	pCi/g	Post
5251	3022070	673784	7.6	Am-241	3.8	pCi/g	Post
5232	3022070	673798	7.6	Am-241	1.7	pCi/g	Post
5221	3022074	673777	7.6	Am-241	1.1	pCi/g	Post
5230	3022077	673793	7.6	Am-241	1.3	pCi/g	Post
5257	3022079	673773	7.6	Am-241	0.35	pCi/g	Post
5234	3022080	673786	7.6	Am-241	0.79	pCi/g	Post
5229	3022080	673796	7.6	Am-241	0.84	pCi/g	Post
5214	3022081	673776	7.6	Am-241	1	pCi/g	Post
5212	3022083	673789	7.6	Am-241	3	pCi/g	Post
5258	3022085	673768	7.6	Am-241	-0.031	pCi/g	Post
5256	3022088	673785	7.6	Am-241	0.23	pCi/g	Post
5255	3022090	673788	7.6	Am-241	0.057	pCi/g	Post
5271	3022091	673764	7.6	Am-241	0.077	pCi/g	Post
5236	3022092	673777	7.6	Am-241	0.22	pCi/g	Post
5272	3022093	673766	7.6	Am-241	0.34	pCi/g	Post
5235	3022094	673780	7.6	Am-241	-0.17	pCi/g	Post
5275	3022100	673775	7.6	Am-241	0.8	pCi/g	Post
5238	3022102	673755	7.6	Am-241	0.55	pCi/g	Post
5237	3022104	673758	7.6	Am-241	1.2	pCi/g	Post
5273	3022104	673768	7.6	Am-241	1.6	pCi/g	Post
5274	3022106	673771	7.6	Am-241	0.88	pCi/g	Post
5043	3022108	673750	7.6	Am-241	3.5	pCi/g	Post
5224	3022111	673768	7.6	Am-241	-0.084	pCi/g	Post
5281	3022113	673771	7.6	Am-241	0.001	pCi/g	Post
5084	3022114	673746	7.6	Am-241	0.38	pCi/g	Post
5279	3022115	673759	7.6	Am-241	0.31	pCi/g	Post
5083	3022116	673749	7.6	Am-241	0.2	pCi/g	Post
5280	3022118	673763	7.6	Am-241	-0.075	pCi/g	Post
5072	3022119	673742	7.6	Am-241	0.68	pCi/g	Post
5276	3022123	673758	7.6	Am-241	-0.12	pCi/g	Post
5082	3022124	673739	7.6	Am-241	0.46	pCi/g	Post
5278	3022125	673761	7.6	Am-241	-0.043	pCi/g	Post
5081	3022126	673741	7.6	Am-241	0.27	pCi/g	Post
5051	3022126	673751	7.6	Am-241	-0.024	pCi/g	Post
5086	3022128	673755	7.6	Am-241	0.34	pCi/g	Post
5070	3022130	673733	7.6	Am-241	-0.1	pCi/g	Post
5264	3022133	673751	7.6	Am-241	0.14	pCi/g	Post
5080	3022135	673730	7.6	Am-241	1.1	pCi/g	Post
5044	3022137	673733	7.6	Am-241	1.1	pCi/g	Post
5085	3022137	673743	7.6	Am-241	1.1	pCi/g	Post
5045	3022139	673746	7.6	Am-241	0.51	pCi/g	Post

Historical Dataset, Survey Unit 16

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytical Result	Units	Period
	Easting	Northing					
5069	3022141	673725	7.6	Am-241	1.4	pCi/g	Post
5263	3022145	673742	7.6	Am-241	1.9	pCi/g	Post
5079	3022147	673721	7.6	Am-241	-0.039	pCi/g	Post
5243	3022148	673735	7.6	Am-241	0.98	pCi/g	Post
5078	3022149	673724	7.6	Am-241	0.66	pCi/g	Post
5242	3022150	673738	7.6	Am-241	0.11	pCi/g	Post
5066	3022152	673716	7.6	Am-241	0.23	pCi/g	Post
5215	3022156	673733	7.6	Am-241	0.16	pCi/g	Post
5075	3022158	673712	7.6	Am-241	0.25	pCi/g	Post
5076	3022160	673715	7.6	Am-241	0.28	pCi/g	Post
5240	3022160	673726	7.6	Am-241	0.15	pCi/g	Post
5050	3022162	673729	7.6	Am-241	0.15	pCi/g	Post
5262	3022168	673724	7.6	Am-241	0.16	pCi/g	Post
5247	3022045	673799	7.6	Th-232	3.8	pCi/g	Post
5248	3022047	673802	7.6	Th-232	3.8	pCi/g	Post
5213	3022051	673794	7.6	Th-232	9.3	pCi/g	Post
5253	3022054	673811	7.6	Th-232	12	pCi/g	Post
5250	3022056	673790	7.6	Th-232	5.7	pCi/g	Post
5254	3022056	673814	7.6	Th-232	17	pCi/g	Post
5249	3022058	673793	7.6	Th-232	5.7	pCi/g	Post
5052	3022058	673803	7.6	Th-232	7.6	pCi/g	Post
5231	3022060	673806	7.6	Th-232	6.5	pCi/g	Post
5245	3022061	673786	7.6	Th-232	9.9	pCi/g	Post
5088	3022065	673813	7.6	Th-232	7.5	pCi/g	Post
5228	3022066	673802	7.6	Th-232	6.1	pCi/g	Post
5087	3022067	673816	7.6	Th-232	24	pCi/g	Post
5252	3022068	673781	7.6	Th-232	6.4	pCi/g	Post
5233	3022068	673795	7.6	Th-232	7.3	pCi/g	Post
5227	3022068	673805	7.6	Th-232	6.1	pCi/g	Post
5251	3022070	673784	7.6	Th-232	7.4	pCi/g	Post
5232	3022070	673798	7.6	Th-232	6	pCi/g	Post
5221	3022074	673777	7.6	Th-232	6.4	pCi/g	Post
5230	3022077	673793	7.6	Th-232	6.1	pCi/g	Post
5257	3022079	673773	7.6	Th-232	4.1	pCi/g	Post
5234	3022080	673786	7.6	Th-232	5.7	pCi/g	Post
5229	3022080	673796	7.6	Th-232	7.2	pCi/g	Post
5214	3022081	673776	7.6	Th-232	7	pCi/g	Post
5212	3022083	673789	7.6	Th-232	9	pCi/g	Post
5258	3022085	673768	7.6	Th-232	2.9	pCi/g	Post
5256	3022088	673785	7.6	Th-232	3	pCi/g	Post
5255	3022090	673788	7.6	Th-232	1.9	pCi/g	Post
5271	3022091	673764	7.6	Th-232	2.5	pCi/g	Post
5236	3022092	673777	7.6	Th-232	3.5	pCi/g	Post
5272	3022093	673766	7.6	Th-232	5.1	pCi/g	Post
5235	3022094	673780	7.6	Th-232	3.7	pCi/g	Post
5275	3022100	673775	7.6	Th-232	6.6	pCi/g	Post
5238	3022102	673755	7.6	Th-232	7.2	pCi/g	Post
5237	3022104	673758	7.6	Th-232	12	pCi/g	Post
5273	3022104	673768	7.6	Th-232	11	pCi/g	Post
5274	3022106	673771	7.6	Th-232	8.9	pCi/g	Post
5043	3022108	673750	7.6	Th-232	8.3	pCi/g	Post
5224	3022111	673768	7.6	Th-232	1.6	pCi/g	Post
5281	3022113	673771	7.6	Th-232	0.9	pCi/g	Post
5084	3022114	673746	7.6	Th-232	13	pCi/g	Post
5279	3022115	673759	7.6	Th-232	3.9	pCi/g	Post
5083	3022116	673749	7.6	Th-232	8.1	pCi/g	Post
5280	3022118	673763	7.6	Th-232	2.5	pCi/g	Post

Historical Dataset, Survey Unit 16

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytical Result	Units	Period
	Easting	Northing					
5072	3022119	673742	7.6	Th-232	8.4	pCi/g	Post
5276	3022123	673758	7.6	Th-232	3	pCi/g	Post
5082	3022124	673739	7.6	Th-232	6.4	pCi/g	Post
5278	3022125	673761	7.6	Th-232	2.5	pCi/g	Post
5081	3022126	673741	7.6	Th-232	9	pCi/g	Post
5051	3022126	673751	7.6	Th-232	5.9	pCi/g	Post
5086	3022128	673755	7.6	Th-232	4.7	pCi/g	Post
5070	3022130	673733	7.6	Th-232	2.3	pCi/g	Post
5264	3022133	673751	7.6	Th-232	3.6	pCi/g	Post
5080	3022135	673730	7.6	Th-232	15	pCi/g	Post
5044	3022137	673733	7.6	Th-232	16	pCi/g	Post
5085	3022137	673743	7.6	Th-232	19	pCi/g	Post
5045	3022139	673746	7.6	Th-232	17	pCi/g	Post
5069	3022141	673725	7.6	Th-232	15	pCi/g	Post
5263	3022145	673742	7.6	Th-232	31	pCi/g	Post
5079	3022147	673721	7.6	Th-232	7.4	pCi/g	Post
5243	3022148	673735	7.6	Th-232	15	pCi/g	Post
5078	3022149	673724	7.6	Th-232	9.4	pCi/g	Post
5242	3022150	673738	7.6	Th-232	7.2	pCi/g	Post
5066	3022152	673716	7.6	Th-232	13	pCi/g	Post
5215	3022156	673733	7.6	Th-232	1.3	pCi/g	Post
5075	3022158	673712	7.6	Th-232	5.3	pCi/g	Post
5076	3022160	673715	7.6	Th-232	3.2	pCi/g	Post
5240	3022160	673726	7.6	Th-232	2.1	pCi/g	Post
5050	3022162	673729	7.6	Th-232	2.2	pCi/g	Post
5262	3022168	673724	7.6	Th-232	1.8	pCi/g	Post
5247	3022045	673799	7.6	U-235	2.6	pCi/g	Post
5248	3022047	673802	7.6	U-235	1.6	pCi/g	Post
5213	3022051	673794	7.6	U-235	5.2	pCi/g	Post
5253	3022054	673811	7.6	U-235	2	pCi/g	Post
5250	3022056	673790	7.6	U-235	5.2	pCi/g	Post
5254	3022056	673814	7.6	U-235	5.8	pCi/g	Post
5249	3022058	673793	7.6	U-235	3.2	pCi/g	Post
5052	3022058	673803	7.6	U-235	4.9	pCi/g	Post
5231	3022060	673806	7.6	U-235	5.7	pCi/g	Post
5245	3022061	673786	7.6	U-235	4.3	pCi/g	Post
5088	3022065	673813	7.6	U-235	5.5	pCi/g	Post
5228	3022066	673802	7.6	U-235	3.5	pCi/g	Post
5087	3022067	673816	7.6	U-235	5.3	pCi/g	Post
5252	3022068	673781	7.6	U-235	3.6	pCi/g	Post
5233	3022068	673795	7.6	U-235	3.4	pCi/g	Post
5227	3022068	673805	7.6	U-235	4.1	pCi/g	Post
5251	3022070	673784	7.6	U-235	2.9	pCi/g	Post
5232	3022070	673798	7.6	U-235	3.1	pCi/g	Post
5221	3022074	673777	7.6	U-235	2.2	pCi/g	Post
5230	3022077	673793	7.6	U-235	3.7	pCi/g	Post
5257	3022079	673773	7.6	U-235	1.9	pCi/g	Post
5234	3022080	673786	7.6	U-235	3.2	pCi/g	Post
5229	3022080	673796	7.6	U-235	4	pCi/g	Post
5214	3022081	673776	7.6	U-235	2.8	pCi/g	Post
5212	3022083	673789	7.6	U-235	5.1	pCi/g	Post
5258	3022085	673768	7.6	U-235	1.6	pCi/g	Post
5256	3022088	673785	7.6	U-235	2.6	pCi/g	Post
5255	3022090	673788	7.6	U-235	2.6	pCi/g	Post
5271	3022091	673764	7.6	U-235	1.4	pCi/g	Post
5236	3022092	673777	7.6	U-235	2.4	pCi/g	Post
5272	3022093	673766	7.6	U-235	2.3	pCi/g	Post

Historical Dataset, Survey Unit 16

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytical Result	Units	Period
	Easting	Northing					
5235	3022094	673780	7.6	U-235	2.6	pCi/g	Post
5275	3022100	673775	7.6	U-235	1.3	pCi/g	Post
5238	3022102	673755	7.6	U-235	1.9	pCi/g	Post
5237	3022104	673758	7.6	U-235	1.8	pCi/g	Post
5273	3022104	673768	7.6	U-235	1.8	pCi/g	Post
5274	3022106	673771	7.6	U-235	2.6	pCi/g	Post
5043	3022108	673750	7.6	U-235	0.88	pCi/g	Post
5224	3022111	673768	7.6	U-235	0.086	pCi/g	Post
5281	3022113	673771	7.6	U-235	0.79	pCi/g	Post
5084	3022114	673746	7.6	U-235	2.1	pCi/g	Post
5279	3022115	673759	7.6	U-235	1	pCi/g	Post
5083	3022116	673749	7.6	U-235	0.7	pCi/g	Post
5280	3022118	673763	7.6	U-235	0.003	pCi/g	Post
5072	3022119	673742	7.6	U-235	1.1	pCi/g	Post
5276	3022123	673758	7.6	U-235	0.16	pCi/g	Post
5082	3022124	673739	7.6	U-235	1.2	pCi/g	Post
5278	3022125	673761	7.6	U-235	0.17	pCi/g	Post
5081	3022126	673741	7.6	U-235	1.4	pCi/g	Post
5051	3022126	673751	7.6	U-235	1	pCi/g	Post
5086	3022128	673755	7.6	U-235	0.66	pCi/g	Post
5070	3022130	673733	7.6	U-235	-0.039	pCi/g	Post
5264	3022133	673751	7.6	U-235	0.98	pCi/g	Post
5080	3022135	673730	7.6	U-235	1.3	pCi/g	Post
5044	3022137	673733	7.6	U-235	2.9	pCi/g	Post
5085	3022137	673743	7.6	U-235	2.2	pCi/g	Post
5045	3022139	673746	7.6	U-235	3.1	pCi/g	Post
5069	3022141	673725	7.6	U-235	2.4	pCi/g	Post
5263	3022145	673742	7.6	U-235	3.6	pCi/g	Post
5079	3022147	673721	7.6	U-235	0.92	pCi/g	Post
5243	3022148	673735	7.6	U-235	2.9	pCi/g	Post
5078	3022149	673724	7.6	U-235	1.2	pCi/g	Post
5242	3022150	673738	7.6	U-235	0.54	pCi/g	Post
5066	3022152	673716	7.6	U-235	2.1	pCi/g	Post
5215	3022156	673733	7.6	U-235	0.062	pCi/g	Post
5075	3022158	673712	7.6	U-235	2	pCi/g	Post
5076	3022160	673715	7.6	U-235	1.4	pCi/g	Post
5240	3022160	673726	7.6	U-235	0.57	pCi/g	Post
5050	3022162	673729	7.6	U-235	0.35	pCi/g	Post
5262	3022168	673724	7.6	U-235	0.45	pCi/g	Post

Appendix A.6

Historical Dataset

Survey Unit 17

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
02-S-122	3022068.661	673888.1576	0.5	Am-241	22	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Am-241	0.26	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Am-241	0.06	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Am-241	2.65	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Am-241	0	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Am-241	7.2	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Am-241	46.18	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Am-241	4.33	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Am-241	0.88	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Am-241	5.36	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Am-241	0.58	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Am-241	0.27	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Am-241	-0.1	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Am-241	0.01	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Am-241	2.4	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Am-241	0.33	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Am-241	0.02	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Am-241	-0.03	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Am-241	0.09	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Am-241	-0.13	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Am-241	0.45	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Am-241	-0.15	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Am-241	-0.15	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Am-241	0.17	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Am-241	-0.29	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Am-241	0.05	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Am-241	3.04	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Am-241	2.05	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Am-241	0.08	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Am-241	0.26	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Am-241	-0.24	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Am-241	-0.07	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Am-241	0.41	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Am-241	0.26	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Am-241	-0.52	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Am-241	0.22	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Am-241	0.07	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Am-241	-0.31	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Am-241	-0.27	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Am-241	1.1	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Am-241	-0.7	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Am-241	-0.2	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Am-241	3.45	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Am-241	0.07	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Am-241	2.3	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Am-241	1.57	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Am-241	-0.15	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
822-C4-1	3022115.636	673938.9912	0.5	Am-241	0.12	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Am-241	-2.24	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Am-241	-0.56	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Am-241	0.18	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Am-241	-0.17	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Am-241	0.18	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Am-241	1.07	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Am-241	0.82	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Am-241	0.27	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Am-241	0.36	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Am-241	1.25	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Am-241	-0.29	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Am-241	0.67	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Am-241	0.98	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Am-241	0.17	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Am-241	0.26	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Am-241	23.45	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Am-241	3.31	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Am-241	4.74	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Am-241	-4.01	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Am-241	0.31	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Am-241	2.1	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Am-241	0.88	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Am-241	2.38	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Am-241	1.16	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Am-241	0.48	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Am-241	3.15	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Am-241	1.34	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Am-241	-0.44	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Am-241	0.4	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Am-241	4.74	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Am-241	0.19	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Am-241	15.93	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Am-241	0.1	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Am-241	-0.22	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Am-241	19.42	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Am-241	0.25	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Am-241	0.41	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Am-241	0.91	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Am-241	1.73	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Am-241	0.98	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Am-241	0.64	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Am-241	0.26	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Am-241	1.6	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Am-241	-2.23	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Am-241	0.26	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Am-241	0.41	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
942-H2-2	3022269.585	673718.4925	1.5	Am-241	-0.89	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Am-241	-1.08	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Am-241	-1.86	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Am-241	1.9	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Am-241	-0.39	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Am-241	3.39	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Am-241	1.52	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Am-241	0.45	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Am-241	7.93	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Am-241	65.64	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Pu-238	5.8	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Pu-238	0.24	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Pu-238	0.16	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Pu-238	0.92	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Pu-238	0	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Pu-238	1.11	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Pu-238	9.08	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Pu-238	1.67	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Pu-238	0.52	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Pu-238	1.83	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Pu-238	0.1	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Pu-238	0.05	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Pu-238	0	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Pu-238	0	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Pu-238	2	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Pu-238	0.32	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Pu-238	0.11	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Pu-238	0	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Pu-238	0.02	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Pu-238	0	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Pu-238	0.08	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Pu-238	0	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Pu-238	0	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-238	0.03	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-238	0	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-238	0.01	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Pu-238	0.55	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Pu-238	0.37	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Pu-238	0.01	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Pu-238	0.05	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Pu-238	0	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Pu-238	0	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Pu-238	0.07	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Pu-238	0.05	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Pu-238	0	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Pu-238	0.04	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Pu-238	0.01	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
783-C2-2	3022130.296	673969.0738	1.5	Pu-238	0.5	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Pu-238	0.04	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Pu-238	2.6	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Pu-238	2.2	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Pu-238	0.1	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Pu-238	0.62	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Pu-238	0.01	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Pu-238	0.63	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Pu-238	0.28	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Pu-238	0	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Pu-238	0.09	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Pu-238	0	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Pu-238	0	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Pu-238	0.03	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Pu-238	0	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Pu-238	0.03	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Pu-238	0.19	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Pu-238	0.15	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Pu-238	0.05	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Pu-238	0.06	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Pu-238	0.23	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Pu-238	0	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Pu-238	0.12	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Pu-238	0.18	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Pu-238	0.03	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Pu-238	0.05	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Pu-238	4.22	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Pu-238	0.6	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Pu-238	0.85	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Pu-238	0	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Pu-238	0.06	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Pu-238	0.8	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Pu-238	0.16	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Pu-238	0.43	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Pu-238	0.21	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Pu-238	0.09	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Pu-238	0.57	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Pu-238	0.24	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Pu-238	0	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Pu-238	0.07	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Pu-238	0.85	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Pu-238	0.03	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Pu-238	2.87	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Pu-238	0.02	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Pu-238	0	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Pu-238	3.5	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Pu-238	0.04	pCi/g	Pre

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937-E5-3	3022140.905	673804.2062	2.5	Pu-238	0.07	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Pu-238	0.16	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Pu-238	0.31	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Pu-238	0.18	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Pu-238	0.12	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Pu-238	0.05	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Pu-238	0.8	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Pu-238	0	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Pu-238	0.05	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Pu-238	0.07	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Pu-238	0	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Pu-238	0	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Pu-238	0	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Pu-238	0.36	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Pu-238	0	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Pu-238	0.61	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Pu-238	0.27	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Pu-238	0.08	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Pu-238	0.96	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Pu-238	7.26	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Pu-239/240	60.5	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Pu-239/240	0.7	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Pu-239/240	0.16	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Pu-239/240	7.29	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Pu-239/240	0	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Pu-239/240	19.8	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Pu-239/240	127	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Pu-239/240	11.9	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Pu-239/240	2.41	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Pu-239/240	50.14	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Pu-239/240	1.59	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Pu-239/240	0.74	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Pu-239/240	0	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Pu-239/240	0.03	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Pu-239/240	4.3	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Pu-239/240	1.9	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Pu-239/240	0.66	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Pu-239/240	0	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Pu-239/240	0.26	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Pu-239/240	0	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Pu-239/240	1.25	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Pu-239/240	0	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Pu-239/240	0	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-239/240	0.47	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-239/240	0	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-239/240	0.14	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Pu-239/240	8.35	pCi/g	Pre

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	Easting	Northing					
781-B4-2	3022081.311	674002.289	1.5	Pu-239/240	5.64	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Pu-239/240	0.23	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Pu-239/240	0.7	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Pu-239/240	0	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Pu-239/240	0	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Pu-239/240	1.14	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Pu-239/240	0.71	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Pu-239/240	0	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Pu-239/240	0.6	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Pu-239/240	0.18	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Pu-239/240	1.2	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Pu-239/240	0.51	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Pu-239/240	3.1	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Pu-239/240	1.3	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Pu-239/240	0.22	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Pu-239/240	9.48	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Pu-239/240	0.19	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Pu-239/240	10	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Pu-239/240	4.31	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Pu-239/240	0	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Pu-239/240	0.8	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Pu-239/240	0	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Pu-239/240	0	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Pu-239/240	0.49	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Pu-239/240	0	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Pu-239/240	0.49	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Pu-239/240	2.95	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Pu-239/240	2.25	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Pu-239/240	0.75	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Pu-239/240	0.99	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Pu-239/240	3.44	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Pu-239/240	0	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Pu-239/240	1.85	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Pu-239/240	2.7	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Pu-239/240	0.47	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Pu-239/240	0.71	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Pu-239/240	64.49	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Pu-239/240	9.1	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Pu-239/240	13.04	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Pu-239/240	0	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Pu-239/240	0.86	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Pu-239/240	9.4	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Pu-239/240	2.43	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Pu-239/240	6.56	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Pu-239/240	3.2	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Pu-239/240	1.31	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Pu-239/240	8.66	pCi/g	Pre

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903-C2-3	3022201.197	673791.2526	2.5	Pu-239/240	3.7	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Pu-239/240	0	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Pu-239/240	1.09	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Pu-239/240	13.03	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Pu-239/240	0.52	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Pu-239/240	43.8	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Pu-239/240	0.28	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Pu-239/240	0	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Pu-239/240	53.41	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Pu-239/240	0.67	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Pu-239/240	1.12	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Pu-239/240	2.49	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Pu-239/240	4.77	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Pu-239/240	2.7	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Pu-239/240	1.77	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Pu-239/240	0.72	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Pu-239/240	5	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Pu-239/240	0	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Pu-239/240	0.73	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Pu-239/240	1.14	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Pu-239/240	0	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Pu-239/240	0	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Pu-239/240	0	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Pu-239/240	4.9	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Pu-239/240	0	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Pu-239/240	9.33	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Pu-239/240	4.19	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Pu-239/240	1.23	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Pu-239/240	21.8	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Pu-239/240	180.5	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Pu-241	5.39	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Pu-241	5.69	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Pu-241	6.35	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Pu-241	27.8	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Pu-241	0	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Pu-241	61.3	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Pu-241	5.49	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Pu-241	31.8	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Pu-241	10.4	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Pu-241	82.23	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Pu-241	2.61	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Pu-241	1.22	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Pu-241	0	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Pu-241	0.04	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Pu-241	11	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Pu-241	3.12	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Pu-241	1.08	pCi/g	Pre

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	Easting	Northing					
744-C2-1	3022150.179	673995.1758	0.5	Pu-241	0	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Pu-241	0.42	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Pu-241	0	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Pu-241	2.05	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Pu-241	0	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Pu-241	0	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-241	0.78	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-241	0	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-241	0.23	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Pu-241	13.7	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Pu-241	9.24	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Pu-241	0.37	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Pu-241	1.15	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Pu-241	0	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Pu-241	0	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Pu-241	1.87	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Pu-241	1.17	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Pu-241	0	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Pu-241	0.98	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Pu-241	0.3	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Pu-241	1.97	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Pu-241	0.84	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Pu-241	9.84	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Pu-241	2.13	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Pu-241	0.36	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Pu-241	15.55	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Pu-241	0.32	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Pu-241	18.5	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Pu-241	7.07	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Pu-241	0	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Pu-241	1.92	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Pu-241	0	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Pu-241	0	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Pu-241	0.8	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Pu-241	0	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Pu-241	0.8	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Pu-241	4.84	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Pu-241	3.7	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Pu-241	1.23	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Pu-241	1.62	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Pu-241	5.65	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Pu-241	0	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Pu-241	3.03	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Pu-241	4.43	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Pu-241	0.77	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Pu-241	1.16	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Pu-241	105.76	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
899-E4-2	3022105.957	673872.1046	1.5	Pu-241	14.92	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Pu-241	21.38	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Pu-241	0	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Pu-241	1.41	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Pu-241	19.9	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Pu-241	3.99	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Pu-241	10.75	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Pu-241	5.24	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Pu-241	2.15	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Pu-241	14.2	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Pu-241	6.06	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Pu-241	0	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Pu-241	1.79	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Pu-241	21.37	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Pu-241	0.85	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Pu-241	71.84	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Pu-241	0.47	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Pu-241	0	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Pu-241	87.6	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Pu-241	1.11	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Pu-241	1.83	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Pu-241	4.09	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Pu-241	7.82	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Pu-241	4.42	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Pu-241	2.89	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Pu-241	1.18	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Pu-241	12.9	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Pu-241	0	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Pu-241	1.19	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Pu-241	1.87	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Pu-241	0	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Pu-241	0	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Pu-241	0	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Pu-241	12.9	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Pu-241	0	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Pu-241	15.3	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Pu-241	6.88	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Pu-241	2.02	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Pu-241	76	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Pu-241	732.5	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Pu-242	0.1	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Pu-242	0.07	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Pu-242	0.04	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Pu-242	0.06	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Pu-242	0	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Pu-242	0.05	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Pu-242	0.24	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
02-S-135	3022029.857	673967.2473	1.5	Pu-242	0.09	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Pu-242	0.02	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Pu-242	0	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Pu-242	0	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Pu-242	0	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Pu-242	0	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Pu-242	0	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Pu-242	0	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Pu-242	0	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Pu-242	0	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Pu-242	0	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Pu-242	0	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Pu-242	0	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Pu-242	0	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Pu-242	0	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Pu-242	0	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-242	0	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-242	0	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-242	0	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Pu-242	0	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Pu-242	0	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Pu-242	0	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Pu-242	0	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Pu-242	0	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Pu-242	0	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Pu-242	0	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Pu-242	0	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Pu-242	0	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Pu-242	0	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Pu-242	0	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Pu-242	0	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Pu-242	0	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Pu-242	0	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Pu-242	0	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Pu-242	0	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Pu-242	0	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Pu-242	0	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Pu-242	0	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Pu-242	0	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Pu-242	0	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Pu-242	0	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Pu-242	0	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Pu-242	0	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Pu-242	0	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Pu-242	0	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Pu-242	0	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
859-H3-2	3022076.974	673947.8335	1.5	Pu-242	0	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Pu-242	0	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Pu-242	0	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Pu-242	0	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Pu-242	0	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Pu-242	0	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Pu-242	0	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Pu-242	0	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Pu-242	0	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Pu-242	0	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Pu-242	0	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Pu-242	0	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Pu-242	0	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Pu-242	0	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Pu-242	0	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Pu-242	0	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Pu-242	0	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Pu-242	0	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Pu-242	0	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Pu-242	0	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Pu-242	0	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Pu-242	0	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Pu-242	0	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Pu-242	0	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Pu-242	0	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Pu-242	0	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Pu-242	0	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Pu-242	0	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Pu-242	0	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Pu-242	0	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Pu-242	0	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Pu-242	0	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Pu-242	0	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Pu-242	0	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Pu-242	0	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Pu-242	0	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Pu-242	0	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Pu-242	0	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Pu-242	0	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Pu-242	0	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Pu-242	0	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Pu-242	0	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Pu-242	0	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Pu-242	0	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Pu-242	0	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Pu-242	0	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Pu-242	0	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
946-C2-3	3022364.082	673625.8294	2.5	Pu-242	0	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Pu-242	0	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Pu-242	0.01	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Tc-99	4	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Tc-99	3.1	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Tc-99	2.2	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Tc-99	6.6	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Tc-99	3.4	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Tc-99	2.8	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Tc-99	29.2	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Tc-99	8.3	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Tc-99	9.1	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Tc-99	6.1	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Tc-99	4.3	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Tc-99	3	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Tc-99	2	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Tc-99	2	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Tc-99	18	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Tc-99	8.1	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Tc-99	5.5	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Tc-99	10.5	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Tc-99	7.9	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Tc-99	6.1	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Tc-99	10	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Tc-99	7.5	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Tc-99	6.2	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Tc-99	9.1	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Tc-99	10.7	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Tc-99	5.4	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Tc-99	5.2	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Tc-99	5.8	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Tc-99	3.1	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Tc-99	1.6	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Tc-99	7.7	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Tc-99	8.1	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Tc-99	8.2	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Tc-99	11.2	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Tc-99	7.6	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Tc-99	6.4	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Tc-99	5.6	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Tc-99	33.2	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Tc-99	16.5	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Tc-99	120	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Tc-99	7.3	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Tc-99	5.7	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Tc-99	6.1	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Tc-99	2.9	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
820-F8-1	3022079.825	673978.6666	0.5	Tc-99	3.7	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Tc-99	8.6	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Tc-99	2.6	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Tc-99	2.4	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Tc-99	7.5	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Tc-99	1.6	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Tc-99	6	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Tc-99	9	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Tc-99	5.4	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Tc-99	4.6	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Tc-99	4.7	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Tc-99	3.2	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Tc-99	6.1	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Tc-99	8.4	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Tc-99	3.4	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Tc-99	8.5	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Tc-99	8.7	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Tc-99	26.8	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Tc-99	13.1	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Tc-99	6.8	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Tc-99	4.4	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Tc-99	6.7	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Tc-99	8.3	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Tc-99	8.8	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Tc-99	7.4	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Tc-99	9.2	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Tc-99	15.7	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Tc-99	6.6	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Tc-99	4	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Tc-99	5.6	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Tc-99	4	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Tc-99	8	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Tc-99	9.7	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Tc-99	7.5	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Tc-99	4.2	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Tc-99	7.4	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Tc-99	1.7	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Tc-99	2.9	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Tc-99	7.3	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Tc-99	0	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Tc-99	0	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Tc-99	7.2	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Tc-99	4.5	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Tc-99	5	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Tc-99	4.2	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Tc-99	4.7	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Tc-99	6.2	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
941-I7-2	3022258.518	673731.0542	1.5	Tc-99	6.7	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Tc-99	2.4	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Tc-99	8.2	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Tc-99	4.6	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Tc-99	10.3	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Tc-99	9.6	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Tc-99	21	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Tc-99	4.6	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Tc-99	9.3	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Tc-99	6.2	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Tc-99	2.6	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Tc-99	2.8	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Tc-99	28	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Th-230	14.2	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Th-230	1	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Th-230	1	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Th-230	5.3	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Th-230	28.3	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Th-230	3.5	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Th-230	21.4	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Th-230	2.8	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Th-230	1.2	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Th-230	23.4	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Th-230	3	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Th-230	1.3	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Th-230	0.2	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Th-230	0.6	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Th-230	6	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Th-230	0.7	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Th-230	1.3	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Th-230	3.8	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Th-230	2	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Th-230	1.2	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Th-230	4.1	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Th-230	1.8	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Th-230	1.4	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Th-230	3.6	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Th-230	2.7	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Th-230	1.1	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Th-230	5.2	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Th-230	14.4	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Th-230	3.1	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Th-230	1	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Th-230	2.7	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Th-230	2.2	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Th-230	2.1	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Th-230	5.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
782-I8-2	3022131.782	673992.6962	1.5	Th-230	1.9	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Th-230	0.6	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Th-230	3	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Th-230	2.7	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Th-230	28	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Th-230	9.8	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Th-230	3.7	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Th-230	1.2	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Th-230	4.2	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Th-230	1.2	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Th-230	3.4	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Th-230	4.6	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Th-230	2.2	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Th-230	3.8	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Th-230	13	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Th-230	1.9	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Th-230	3.8	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Th-230	3.5	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Th-230	0.7	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Th-230	3.1	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Th-230	3.1	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Th-230	1.3	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Th-230	5.3	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Th-230	8.7	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Th-230	2.1	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Th-230	5	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Th-230	4.8	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Th-230	70.2	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Th-230	11.6	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Th-230	35.1	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Th-230	4.5	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Th-230	8.1	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Th-230	14.8	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Th-230	4.7	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Th-230	5.7	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Th-230	43	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Th-230	6.7	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	Th-230	4.7	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Th-230	2.2	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Th-230	3.1	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Th-230	2.6	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Th-230	3.4	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Th-230	3.6	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Th-230	23.1	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Th-230	3.3	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Th-230	19.4	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Th-230	1.5	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
935-I2-3	3022088.806	673860.424	2.5	Th-230	1.4	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Th-230	14.7	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Th-230	1.5	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Th-230	1.8	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Th-230	9	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Th-230	15	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Th-230	6.9	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Th-230	3.7	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Th-230	4.3	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Th-230	6.9	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Th-230	4.8	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Th-230	3	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Th-230	5.7	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Th-230	3.7	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Th-230	3.8	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Th-230	5	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Th-230	0.9	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Th-230	1.8	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Th-230	27.1	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Th-230	5.3	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Th-230	1	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Th-230	1.4	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Th-230	3.2	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	Th-232	33.1	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	Th-232	1.6	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	Th-232	2.3	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	Th-232	8.9	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	Th-232	60	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	Th-232	7.4	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	Th-232	37.3	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	Th-232	5.5	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	Th-232	2.3	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	Th-232	39.9	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	Th-232	5.5	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	Th-232	2.1	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	Th-232	0.3	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	Th-232	0.9	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	Th-232	16	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	Th-232	3.3	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	Th-232	2.1	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	Th-232	7.1	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	Th-232	3.4	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	Th-232	2.1	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	Th-232	7.6	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	Th-232	3.1	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	Th-232	2.3	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Th-232	6.7	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
745-B1-2	3022171.689	673974.6528	1.5	Th-232	4.9	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Th-232	1.7	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	Th-232	10.1	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	Th-232	30.8	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	Th-232	5.7	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	Th-232	1.6	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	Th-232	4.8	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	Th-232	3.8	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	Th-232	3.6	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	Th-232	10.4	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	Th-232	3.2	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	Th-232	0.9	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	Th-232	5.5	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	Th-232	5.6	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	Th-232	4.1	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	Th-232	24	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	Th-232	7.5	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	Th-232	1.8	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	Th-232	7.8	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	Th-232	2	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	Th-232	5.6	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	Th-232	8.8	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	Th-232	3.9	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	Th-232	5.4	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	Th-232	27.6	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	Th-232	3.3	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	Th-232	7.2	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	Th-232	6.5	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	Th-232	1.1	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	Th-232	5.7	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	Th-232	5.6	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	Th-232	2.1	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	Th-232	10.1	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	Th-232	17.7	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	Th-232	3.7	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	Th-232	9.6	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	Th-232	9.3	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	Th-232	179	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	Th-232	24.2	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	Th-232	83.2	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	Th-232	8.5	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	Th-232	16.2	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	Th-232	31.9	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	Th-232	9	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	Th-232	12	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	Th-232	8	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	Th-232	13.3	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
902-F8-4	3022196.718	673807.0444	3.5	Th-232	8.8	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	Th-232	3.9	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	Th-232	5.6	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	Th-232	4.7	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	Th-232	6.3	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	Th-232	6.7	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	Th-232	52.2	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	Th-232	6.1	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	Th-232	43	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	Th-232	2.5	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	Th-232	2.4	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	Th-232	31.6	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	Th-232	2.5	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	Th-232	3.1	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	Th-232	18.3	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	Th-232	32.4	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	Th-232	13.8	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	Th-232	6.9	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	Th-232	8.2	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	Th-232	11	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	Th-232	9.1	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	Th-232	5.4	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	Th-232	11	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	Th-232	7	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	Th-232	7	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	Th-232	9.6	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	Th-232	2.5	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	Th-232	3.2	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	Th-232	62.3	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	Th-232	10.1	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	Th-232	1.5	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	Th-232	3.6	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	Th-232	10.6	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	U-233/234	383	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	U-233/234	151	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	U-233/234	23.8	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	U-233/234	404	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	U-233/234	250	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	U-233/234	27.2	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	U-233/234	427	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	U-233/234	126	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	U-233/234	31.4	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	U-233/234	176.3	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	U-233/234	65.6	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	U-233/234	23.2	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	U-233/234	6.8	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	U-233/234	7.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
743-C8-1	3022139.735	674003.137	0.5	U-233/234	2300	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	U-233/234	270	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	U-233/234	140	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	U-233/234	845.9	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	U-233/234	369.3	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	U-233/234	172.8	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	U-233/234	736.9	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	U-233/234	317.5	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	U-233/234	186.8	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-233/234	555.4	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-233/234	899.1	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-233/234	123.5	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	U-233/234	107.7	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	U-233/234	154.2	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	U-233/234	24.2	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	U-233/234	3.4	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	U-233/234	342.3	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	U-233/234	391.9	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	U-233/234	416.3	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	U-233/234	1024.4	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	U-233/234	337	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	U-233/234	203	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	U-233/234	139	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	U-233/234	85	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	U-233/234	170	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	U-233/234	3700	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	U-233/234	240	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	U-233/234	150	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	U-233/234	178.8	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	U-233/234	21.1	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	U-233/234	220	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	U-233/234	481.2	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	U-233/234	138.8	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	U-233/234	200	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	U-233/234	640	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	U-233/234	98.2	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	U-233/234	167.6	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	U-233/234	546.4	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	U-233/234	121.4	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	U-233/234	77.2	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	U-233/234	82.5	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	U-233/234	27.5	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	U-233/234	178.3	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	U-233/234	444	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	U-233/234	31.4	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	U-233/234	459.7	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	U-233/234	545.1	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
864-C2-3	3022296.37	673678.0334	2.5	U-233/234	712.7	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	U-233/234	167.3	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	U-233/234	241.5	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	U-233/234	69.2	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	U-233/234	233.3	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	U-233/234	422.8	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	U-233/234	562.5	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	U-233/234	480	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	U-233/234	555.5	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	U-233/234	192.5	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	U-233/234	219.9	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	U-233/234	50.6	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	U-233/234	139.7	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	U-233/234	53.3	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	U-233/234	379	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	U-233/234	662.1	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	U-233/234	315.1	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	U-233/234	59.1	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	U-233/234	308.7	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	U-233/234	4.7	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	U-233/234	20.4	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	U-233/234	295.4	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	U-233/234	22.2	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	U-233/234	32.3	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	U-233/234	279.2	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	U-233/234	121.7	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	U-233/234	96.8	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	U-233/234	44.1	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	U-233/234	32.4	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	U-233/234	590	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	U-233/234	308.2	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	U-233/234	114	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	U-233/234	405.9	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	U-233/234	384.3	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	U-233/234	789.9	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	U-233/234	649.9	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	U-233/234	120	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	U-233/234	79.3	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	U-233/234	599.2	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	U-233/234	184.3	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	U-233/234	14.5	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	U-233/234	27	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	U-233/234	196.5	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	U-235	10.5	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	U-235	5.1	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	U-235	1	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	U-235	13.4	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
02-S-132	3022011.82	674014.0028	1.5	U-235	9.8	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	U-235	0.7	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	U-235	12.7	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	U-235	3.9	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	U-235	1	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	U-235	6.8	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	U-235	2.5	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	U-235	0.9	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	U-235	0.3	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	U-235	0.3	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	U-235	74	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	U-235	15	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	U-235	4.9	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	U-235	31.2	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	U-235	13.8	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	U-235	6.6	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	U-235	27.3	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	U-235	11.9	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	U-235	7.1	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-235	20.7	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-235	33.1	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-235	4.7	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	U-235	4.1	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	U-235	5.9	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	U-235	1	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	U-235	0.1	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	U-235	12.8	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	U-235	14.7	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	U-235	15.6	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	U-235	37.7	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	U-235	12.6	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	U-235	7.7	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	U-235	5.3	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	U-235	2.9	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	U-235	5.1	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	U-235	110	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	U-235	11	pCi/g	Pre
783-I8-3	3022157.891	673972.7931	2.5	U-235	5.5	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	U-235	6.8	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	U-235	0.8	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	U-235	5.6	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	U-235	17.9	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	U-235	5.3	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	U-235	4.9	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	U-235	23.7	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	U-235	3.8	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	U-235	6.4	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
822-J2-2	3022124.332	673961.2432	1.5	U-235	20.3	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	U-235	4.6	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	U-235	3	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	U-235	3.2	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	U-235	1.1	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	U-235	6.8	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	U-235	16.6	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	U-235	1.2	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	U-235	17.2	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	U-235	20.3	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	U-235	26.4	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	U-235	6.4	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	U-235	9.1	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	U-235	2.7	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	U-235	8.8	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	U-235	15.8	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	U-235	20.9	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	U-235	16	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	U-235	20.7	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	U-235	7.3	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	U-235	8.3	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	U-235	2	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	U-235	5.3	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	U-235	2.1	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	U-235	14.2	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	U-235	24.5	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	U-235	11.8	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	U-235	2.3	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	U-235	11.6	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	U-235	0.2	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	U-235	0.8	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	U-235	11.1	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	U-235	0.9	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	U-235	1.3	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	U-235	10.5	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	U-235	4.7	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	U-235	3.7	pCi/g	Pre
941-C2-2	3022233.534	673725.3446	1.5	U-235	1.7	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	U-235	1.3	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	U-235	17	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	U-235	11.6	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	U-235	4.4	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	U-235	15.2	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	U-235	14.4	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	U-235	29.2	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	U-235	24.1	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	U-235	4.3	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
945-D3-2	3022342.571	673646.3523	1.5	U-235	3.1	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	U-235	22.3	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	U-235	7	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	U-235	0.6	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	U-235	0.6	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	U-235	5.7	pCi/g	Pre
02-S-122	3022068.661	673888.1576	0.5	U-238	20.2	pCi/g	Pre
02-S-123	3022068.661	673888.1576	1.5	U-238	45.1	pCi/g	Pre
02-S-124	3022068.661	673888.1576	2.5	U-238	8	pCi/g	Pre
02-S-131	3022011.82	674014.0028	0.5	U-238	58.6	pCi/g	Pre
02-S-132	3022011.82	674014.0028	1.5	U-238	169	pCi/g	Pre
02-S-133	3022011.82	674014.0028	3	U-238	15.1	pCi/g	Pre
02-S-134	3022029.857	673967.2473	0.5	U-238	124	pCi/g	Pre
02-S-135	3022029.857	673967.2473	1.5	U-238	13.1	pCi/g	Pre
02-S-136	3022029.857	673967.2473	2.5	U-238	11	pCi/g	Pre
705-C1-1	3022167.45	674023.268	0.5	U-238	22.4	pCi/g	Pre
705-C1-2	3022167.45	674023.268	1.5	U-238	7.7	pCi/g	Pre
706-C1-1	3022193.56	674003.365	0.5	U-238	3.8	pCi/g	Pre
706-C1-2	3022193.56	674003.365	1.5	U-238	1.7	pCi/g	Pre
706-C1-3	3022193.56	674003.365	2.5	U-238	1.7	pCi/g	Pre
743-C8-1	3022139.735	674003.137	0.5	U-238	26	pCi/g	Pre
743-C8-2	3022139.735	674003.137	1.5	U-238	11	pCi/g	Pre
743-C8-3	3022139.735	674003.137	2.5	U-238	5.1	pCi/g	Pre
744-C2-1	3022150.179	673995.1758	0.5	U-238	43.4	pCi/g	Pre
744-C2-2	3022150.179	673995.1758	1.5	U-238	24.7	pCi/g	Pre
744-C2-3	3022150.179	673995.1758	2.5	U-238	14.8	pCi/g	Pre
744-I8-1	3022177.774	673998.8951	0.5	U-238	39.5	pCi/g	Pre
744-I8-2	3022177.774	673998.8951	1.5	U-238	22.3	pCi/g	Pre
744-I8-3	3022177.774	673998.8951	2.5	U-238	15.6	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-238	32.6	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-238	45.2	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-238	11.8	pCi/g	Pre
781-B4-1	3022081.311	674002.289	0.5	U-238	10.7	pCi/g	Pre
781-B4-2	3022081.311	674002.289	1.5	U-238	13.7	pCi/g	Pre
781-B4-3	3022081.311	674002.289	2.5	U-238	3.9	pCi/g	Pre
781-B4-4	3022081.311	674002.289	3.5	U-238	1	pCi/g	Pre
782-C2-1	3022104.187	673988.9768	0.5	U-238	23.5	pCi/g	Pre
782-C2-2	3022104.187	673988.9768	1.5	U-238	25.8	pCi/g	Pre
782-C2-3	3022104.187	673988.9768	2.5	U-238	26.8	pCi/g	Pre
782-I8-1	3022131.782	673992.6962	0.5	U-238	49.4	pCi/g	Pre
782-I8-2	3022131.782	673992.6962	1.5	U-238	23.2	pCi/g	Pre
782-I8-3	3022131.782	673992.6962	2.5	U-238	16.5	pCi/g	Pre
783-C2-1	3022130.296	673969.0738	0.5	U-238	12.8	pCi/g	Pre
783-C2-2	3022130.296	673969.0738	1.5	U-238	1.3	pCi/g	Pre
783-C2-3	3022130.296	673969.0738	2.5	U-238	4.2	pCi/g	Pre
783-I8-1	3022157.891	673972.7931	0.5	U-238	59	pCi/g	Pre
783-I8-2	3022157.891	673972.7931	1.5	U-238	2.8	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
783-I8-3	3022157.891	673972.7931	2.5	U-238	1.9	pCi/g	Pre
820-D5-2	3022068.016	673979.4171	1.5	U-238	15.1	pCi/g	Pre
820-D5-3	3022068.016	673979.4171	2.5	U-238	3.6	pCi/g	Pre
820-F8-1	3022079.825	673978.6666	0.5	U-238	16	pCi/g	Pre
821-D2-1	3022086.293	673965.485	0.5	U-238	29.6	pCi/g	Pre
821-D2-2	3022086.293	673965.485	1.5	U-238	12.7	pCi/g	Pre
822-C4-1	3022115.636	673938.9912	0.5	U-238	7.2	pCi/g	Pre
822-C4-2	3022115.636	673938.9912	1.5	U-238	35.9	pCi/g	Pre
822-C4-3	3022115.636	673938.9912	2.5	U-238	10.1	pCi/g	Pre
822-J2-1	3022124.332	673961.2432	0.5	U-238	14.5	pCi/g	Pre
822-J2-2	3022124.332	673961.2432	1.5	U-238	32.3	pCi/g	Pre
822-J2-3	3022124.332	673961.2432	2.5	U-238	11.6	pCi/g	Pre
859-H3-1	3022076.974	673947.8335	0.5	U-238	8.6	pCi/g	Pre
859-H3-2	3022076.974	673947.8335	1.5	U-238	9	pCi/g	Pre
859-H3-3	3022076.974	673947.8335	2.5	U-238	4.3	pCi/g	Pre
860-H5-1	3022108.306	673923.9499	0.5	U-238	15.1	pCi/g	Pre
860-H5-2	3022108.306	673923.9499	1.5	U-238	28	pCi/g	Pre
860-H5-3	3022108.306	673923.9499	2.5	U-238	4.7	pCi/g	Pre
864-C2-1	3022296.37	673678.0334	0.5	U-238	28.7	pCi/g	Pre
864-C2-2	3022296.37	673678.0334	1.5	U-238	32.2	pCi/g	Pre
864-C2-3	3022296.37	673678.0334	2.5	U-238	38.6	pCi/g	Pre
864-C2-4	3022296.37	673678.0334	3.5	U-238	14.5	pCi/g	Pre
899-E4-1	3022105.957	673872.1046	0.5	U-238	18.5	pCi/g	Pre
899-E4-2	3022105.957	673872.1046	1.5	U-238	7.9	pCi/g	Pre
899-E4-3	3022105.957	673872.1046	2.5	U-238	18.1	pCi/g	Pre
902-C1-1	3022172.476	673813.146	0.5	U-238	27.1	pCi/g	Pre
902-C1-2	3022172.476	673813.146	1.5	U-238	32.9	pCi/g	Pre
902-F8-1	3022196.718	673807.0444	0.5	U-238	15	pCi/g	Pre
902-F8-2	3022196.718	673807.0444	1.5	U-238	32.6	pCi/g	Pre
902-F8-3	3022196.718	673807.0444	2.5	U-238	15.9	pCi/g	Pre
902-F8-4	3022196.718	673807.0444	3.5	U-238	17.4	pCi/g	Pre
903-C2-1	3022201.197	673791.2526	0.5	U-238	6.4	pCi/g	Pre
903-C2-2	3022201.197	673791.2526	1.5	U-238	12.8	pCi/g	Pre
903-C2-3	3022201.197	673791.2526	2.5	U-238	6.7	pCi/g	Pre
903-J7-1	3022228.169	673799.5725	0.5	U-238	25.2	pCi/g	Pre
903-J7-2	3022228.169	673799.5725	1.5	U-238	36.7	pCi/g	Pre
903-J7-3	3022228.169	673799.5725	2.5	U-238	22.2	pCi/g	Pre
903-J7-4	3022228.169	673799.5725	3.5	U-238	7.1	pCi/g	Pre
935-I2-1	3022088.806	673860.424	0.5	U-238	21.9	pCi/g	Pre
935-I2-2	3022088.806	673860.424	1.5	U-238	1.3	pCi/g	Pre
935-I2-3	3022088.806	673860.424	2.5	U-238	3.5	pCi/g	Pre
937-E5-1	3022140.905	673804.2062	0.5	U-238	21.3	pCi/g	Pre
937-E5-2	3022140.905	673804.2062	1.5	U-238	3.7	pCi/g	Pre
937-E5-3	3022140.905	673804.2062	2.5	U-238	4.7	pCi/g	Pre
940-J7-1	3022234.397	673753.5675	0.5	U-238	20.5	pCi/g	Pre
940-J7-2	3022234.397	673753.5675	1.5	U-238	11.7	pCi/g	Pre
941-C2-1	3022233.534	673725.3446	0.5	U-238	10	pCi/g	Pre

Historical Dataset, Survey Unit 17

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
941-C2-2	3022233.534	673725.3446	1.5	U-238	5.9	pCi/g	Pre
941-C2-3	3022233.534	673725.3446	2.5	U-238	4.8	pCi/g	Pre
941-I7-1	3022258.518	673731.0542	0.5	U-238	12	pCi/g	Pre
941-I7-2	3022258.518	673731.0542	1.5	U-238	21.9	pCi/g	Pre
941-I7-3	3022258.518	673731.0542	2.5	U-238	11.2	pCi/g	Pre
942-H2-1	3022269.585	673718.4925	0.5	U-238	26.4	pCi/g	Pre
942-H2-2	3022269.585	673718.4925	1.5	U-238	25.4	pCi/g	Pre
943-G3-1	3022296.317	673693.989	0.5	U-238	41.4	pCi/g	Pre
943-G3-2	3022296.317	673693.989	1.5	U-238	36.3	pCi/g	Pre
945-D3-1	3022342.571	673646.3523	0.5	U-238	27	pCi/g	Pre
945-D3-2	3022342.571	673646.3523	1.5	U-238	8.7	pCi/g	Pre
946-C2-1	3022364.082	673625.8294	0.5	U-238	34.3	pCi/g	Pre
946-C2-2	3022364.082	673625.8294	1.5	U-238	15.4	pCi/g	Pre
946-C2-3	3022364.082	673625.8294	2.5	U-238	2.8	pCi/g	Pre
AOC5-SD-009	3022136.043	673857.4219	0.5	U-238	1.3	pCi/g	Pre
AOC5-SD-010,D	3022275.309	673693.4997	0.5	U-238	11.4	pCi/g	Pre

Appendix A.7

Historical Dataset

Survey Unit 18

Historical Dataset, Survey Unit 18

Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
745-B1-1	3022171.689	673974.6528	0.5	Am-241	0.17	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Am-241	-0.29	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Am-241	0.05	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Am-241	0.69	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Am-241	0.24	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Am-241	-0.13	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Am-241	-0.17	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Am-241	0.68	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Am-241	0.45	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Am-241	0.00	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Am-241	0.55	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Am-241	1.14	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Am-241	0.62	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Am-241	0.26	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Am-241	0.35	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Am-241	-0.18	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Am-241	0.07	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Am-241	-0.08	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Am-241	0.10	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Am-241	-0.21	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Am-241	0.15	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Am-241	0.04	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Am-241	-0.46	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Am-241	1.08	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Am-241	0.70	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Am-241	-0.18	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Am-241	0.29	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Am-241	-0.26	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Am-241	-0.22	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Am-241	-0.07	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Am-241	-0.43	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Am-241	0.13	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Am-241	0.56	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Am-241	-0.24	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Am-241	0.00	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Am-241	-0.10	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Am-241	0.50	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Am-241	0.31	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Am-241	0.06	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Am-241	1.10	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Am-241	0.17	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Am-241	0.02	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Am-241	0.20	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Am-241	0.79	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Am-241	0.29	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Am-241	-0.29	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Am-241	0.28	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
861-G6-2	3022135.038	673899.4463	1.5	Am-241	2.74	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Am-241	1.25	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Am-241	0.24	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Am-241	0.57	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Am-241	0.70	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Am-241	0.20	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Am-241	0.04	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Am-241	0.22	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Am-241	0.27	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Am-241	0.20	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Am-241	0.31	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Am-241	2.15	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Am-241	2.30	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Am-241	1.37	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Am-241	0.43	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Am-241	2.00	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Am-241	0.56	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Am-241	0.29	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Am-241	71.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Am-241	-0.05	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Am-241	33.55	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Am-241	6.62	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Am-241	0.96	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Am-241	0.61	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Am-241	0.67	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-238	0.03	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-238	0.00	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-238	0.01	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Pu-238	0.12	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Pu-238	0.04	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Pu-238	0.00	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Pu-238	0.00	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Pu-238	0.12	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Pu-238	0.08	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Pu-238	0.00	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Pu-238	0.42	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Pu-238	0.21	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Pu-238	0.41	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Pu-238	0.19	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Pu-238	0.06	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Pu-238	0.04	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Th-232	2.90	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Pu-238	-0.04	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Pu-238	0.22	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Th-232	1.30	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Pu-238	0.16	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Pu-238	0.18	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
785-I8-1	3022210.111	673932.9871	0.5	Pu-238	0.00	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Pu-238	0.19	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Pu-238	0.13	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Pu-238	0.00	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Th-232	1.10	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Pu-238	0.00	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Pu-238	0.00	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Pu-238	0.00	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Th-232	1.20	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Pu-238	0.02	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Pu-238	0.10	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Pu-238	0.00	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Th-232	2.20	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Pu-238	0.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Pu-238	0.09	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Pu-238	0.06	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Pu-238	0.01	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Pu-238	-0.12	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Pu-238	0.03	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Th-232	0.50	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Pu-238	0.04	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Pu-238	0.14	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Pu-238	0.05	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Th-232	3.90	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Pu-238	0.05	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Pu-238	0.49	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Pu-238	0.22	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Th-232	2.80	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Pu-238	0.10	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Pu-238	0.13	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Pu-238	0.04	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Th-232	0.80	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Th-232	0.90	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Pu-238	0.05	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Pu-238	0.04	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Pu-238	0.06	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Pu-238	0.39	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Pu-238	0.16	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Pu-238	0.25	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Pu-238	0.08	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Pu-238	0.60	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Pu-238	0.10	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Pu-238	0.05	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Pu-238	11.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Th-232	3.50	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Pu-238	6.04	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Pu-238	1.19	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
901-I8-1	3022176.573	673834.7781	0.5	Pu-238	0.17	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Pu-238	0.11	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Pu-238	0.12	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-239/240	0.47	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-239/240	0.00	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-239/240	0.14	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Pu-239/240	1.89	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Pu-239/240	0.65	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Pu-239/240	0.00	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Pu-239/240	0.00	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Pu-239/240	1.87	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Pu-239/240	1.24	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Pu-239/240	0.01	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Pu-239/240	1.64	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Pu-239/240	3.13	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Pu-239/240	2.70	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Pu-239/240	0.21	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Pu-239/240	0.97	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Pu-239/240	0.93	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	U-235	1.60	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Pu-239/240	0.28	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Pu-239/240	3.50	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	U-235	1.50	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Pu-239/240	1.10	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Pu-239/240	2.00	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Pu-239/240	0.00	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Pu-239/240	2.96	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Pu-239/240	1.91	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Pu-239/240	0.00	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	U-235	2.10	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Pu-239/240	0.00	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Pu-239/240	0.00	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Pu-239/240	0.00	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	U-235	0.20	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Pu-239/240	0.35	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Pu-239/240	1.53	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Pu-239/240	0.00	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	U-235	1.50	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Pu-239/240	0.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Pu-239/240	1.38	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Pu-239/240	0.86	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Pu-239/240	0.16	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Pu-239/240	4.40	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Pu-239/240	0.45	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	U-235	0.50	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Pu-239/240	0.54	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Pu-239/240	2.18	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
861-C2-2	3022116.641	673896.9668	1.5	Pu-239/240	0.79	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	U-235	1.80	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Pu-239/240	0.78	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Pu-239/240	7.53	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Pu-239/240	3.43	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	U-235	1.20	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Pu-239/240	1.58	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Pu-239/240	1.92	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Pu-239/240	0.56	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	U-235	0.10	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	U-235	0.20	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Pu-239/240	0.75	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Pu-239/240	0.55	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Pu-239/240	0.86	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Pu-239/240	5.90	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Pu-239/240	3.60	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Pu-239/240	3.78	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Pu-239/240	1.19	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Pu-239/240	7.30	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Pu-239/240	1.54	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Pu-239/240	0.80	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Pu-239/240	190.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	U-235	1.80	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Pu-239/240	92.25	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Pu-239/240	18.19	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Pu-239/240	2.65	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Pu-239/240	1.66	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Pu-239/240	1.84	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-241	0.78	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-241	0.00	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-241	0.23	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Pu-241	3.09	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Pu-241	1.07	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Pu-241	0.00	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Pu-241	0.00	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Pu-241	3.07	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Pu-241	2.03	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Pu-241	0.02	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Pu-241	2.68	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Pu-241	5.14	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Pu-241	4.43	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Pu-241	0.34	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Pu-241	1.59	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Pu-241	1.53	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Pu-238	0.01	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Pu-241	0.46	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Pu-241	9.39	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
823-G2-4	3022144.476	673933.5095	3.5	Pu-238	0.00	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Pu-241	1.80	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Pu-241	3.28	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Pu-241	0.00	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Pu-241	4.85	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Pu-241	3.14	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Pu-241	0.00	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Pu-238	0.05	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Pu-241	0.00	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Pu-241	0.00	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Pu-241	0.00	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Pu-238	0.02	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Pu-241	0.57	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Pu-241	2.51	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Pu-241	0.00	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Pu-238	0.00	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Pu-241	0.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Pu-241	2.26	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Pu-241	1.40	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Pu-241	0.26	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Pu-241	10.20	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Pu-241	0.74	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Pu-238	-0.01	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Pu-241	0.88	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Pu-241	3.58	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Pu-241	1.30	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Pu-238	0.00	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Pu-241	1.28	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Pu-241	12.34	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Pu-241	5.63	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Pu-238	0.04	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Pu-241	2.58	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Pu-241	3.14	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Pu-241	0.92	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Pu-238	-0.01	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Pu-238	0.00	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Pu-241	1.23	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Pu-241	0.90	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Pu-241	1.41	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Pu-241	9.68	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Pu-241	5.95	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Pu-241	6.20	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Pu-241	1.96	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Pu-241	23.80	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Pu-241	2.53	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Pu-241	1.31	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Pu-241	542.00	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
865-B1-4	3022216.48	673816.7347	3.5	Pu-238	0.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Pu-241	151.30	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Pu-241	29.83	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Pu-241	4.35	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Pu-241	2.73	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Pu-241	3.02	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Pu-242	0.00	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Pu-242	0.00	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Pu-242	0.00	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Pu-242	0.00	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Pu-242	0.00	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Pu-242	0.00	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Pu-242	0.00	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Pu-242	0.00	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Pu-242	0.00	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Pu-242	0.00	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Pu-242	0.00	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Pu-242	0.00	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Pu-242	0.00	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Pu-242	0.00	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Pu-242	0.00	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Pu-242	0.00	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Pu-239/240	0.20	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Pu-242	0.00	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Pu-242	0.00	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Pu-239/240	0.00	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Pu-242	0.00	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Pu-242	0.00	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Pu-242	0.00	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Pu-242	0.00	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Pu-242	0.00	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Pu-242	0.00	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Pu-239/240	0.79	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Pu-242	0.00	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Pu-242	0.00	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Pu-242	0.00	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Pu-239/240	0.05	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Pu-242	0.00	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Pu-242	0.00	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Pu-242	0.00	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Pu-239/240	0.00	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Pu-242	0.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Pu-242	0.00	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Pu-242	0.00	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Pu-242	0.00	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Pu-242	0.00	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Pu-242	0.00	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
784-C8-4	3022172.072	673937.2289	3.5	Pu-239/240	0.08	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Pu-242	0.00	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Pu-242	0.00	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Pu-242	0.00	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Pu-239/240	0.00	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Pu-242	0.00	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Pu-242	0.00	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Pu-242	0.00	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Pu-239/240	0.67	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Pu-242	0.00	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Pu-242	0.00	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Pu-242	0.00	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Pu-239/240	0.03	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Pu-239/240	0.02	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Pu-242	0.00	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Pu-242	0.00	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Pu-242	0.00	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Pu-242	0.00	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Pu-242	0.00	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Pu-242	0.00	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Pu-242	0.00	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Pu-242	0.00	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Pu-242	0.00	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Pu-242	0.00	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Pu-242	0.01	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Pu-239/240	0.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Pu-242	0.00	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Pu-242	0.00	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Pu-242	0.00	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Pu-242	0.00	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Pu-242	0.00	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Tc-99	9.10	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Tc-99	10.70	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Tc-99	5.40	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Tc-99	7.40	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Tc-99	7.30	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Tc-99	7.20	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Tc-99	11.40	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Tc-99	7.90	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Tc-99	8.50	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Tc-99	7.80	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Tc-99	8.90	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Tc-99	12.20	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Tc-99	10.90	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Tc-99	3.60	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Tc-99	10.60	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Tc-99	5.80	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
862-B3-4	3022143.373	673872.4632	3.5	Pu-241	0.33	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Tc-99	3.50	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Tc-99	4.50	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Pu-241	0.00	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Tc-99	11.90	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Tc-99	7.90	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Tc-99	8.00	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Tc-99	9.50	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Tc-99	9.50	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Tc-99	6.70	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Pu-241	1.29	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Tc-99	10.10	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Tc-99	5.50	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Tc-99	5.10	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Pu-241	0.09	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Tc-99	9.80	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Tc-99	7.40	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Tc-99	3.90	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Pu-241	0.01	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Tc-99	11.60	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Tc-99	6.60	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Tc-99	2.80	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Tc-99	4.90	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Tc-99	1.60	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Tc-99	3.10	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Pu-241	0.12	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Tc-99	2.70	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Tc-99	4.90	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Tc-99	7.70	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Pu-241	0.00	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Tc-99	4.00	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Tc-99	7.10	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Tc-99	5.30	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Pu-241	1.09	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Tc-99	6.90	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Tc-99	6.00	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Tc-99	8.30	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Pu-241	0.04	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Pu-241	0.03	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Tc-99	7.40	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Tc-99	8.40	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Tc-99	8.80	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Tc-99	6.60	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Tc-99	3.30	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Tc-99	12.00	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Tc-99	12.40	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Tc-99	3.80	pCi/g	Pre

Historical Dataset, Survey Unit 18

Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
899-J9-2	3022128.953	673875.204	1.5	Tc-99	3.70	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Tc-99	1.50	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Tc-99	7.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Pu-241	0.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Tc-99	13.20	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Tc-99	8.00	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Tc-99	8.20	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Tc-99	9.10	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Tc-99	8.20	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Th-230	3.60	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Th-230	2.70	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Th-230	1.10	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Th-230	3.10	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Th-230	4.80	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Th-230	2.80	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Th-230	5.60	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Th-230	3.90	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Th-230	2.60	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Th-230	3.80	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Th-230	3.50	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Th-230	4.40	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Th-230	3.10	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	Th-230	0.50	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Th-230	3.30	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Th-230	1.40	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Pu-242	0.00	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Th-230	0.70	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Th-230	2.30	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Pu-242	0.00	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Th-230	2.70	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Th-230	2.50	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Th-230	4.10	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Th-230	4.90	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Th-230	5.00	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Th-230	2.40	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Pu-242	0.00	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Th-230	3.40	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Th-230	1.30	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Th-230	1.30	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Pu-242	0.00	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Th-230	2.60	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Th-230	2.10	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Th-230	1.10	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Pu-242	0.00	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Th-230	4.80	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Th-230	5.70	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Th-230	1.00	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
825-I1-1	3022198.061	673900.9142	0.5	Th-230	1.00	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Th-230	1.30	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Th-230	1.10	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Pu-242	0.00	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Th-230	0.90	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Th-230	3.80	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Th-230	5.40	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Pu-242	0.00	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Th-230	1.70	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Th-230	6.30	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Th-230	2.70	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Pu-242	0.00	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Th-230	6.70	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Th-230	2.90	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Th-230	4.60	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Pu-242	0.00	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Pu-242	0.00	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Th-230	6.80	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Th-230	3.10	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Th-230	4.90	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Th-230	7.50	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Th-230	3.20	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	Th-230	9.20	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Th-230	6.20	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Th-230	2.90	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Th-230	1.40	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Th-230	1.80	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Th-230	7.90	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Pu-242	0.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Th-230	7.00	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Th-230	5.10	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Th-230	5.30	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Th-230	1.80	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Th-230	7.50	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	Th-232	6.70	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	Th-232	4.90	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	Th-232	1.70	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	Th-232	5.70	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	Th-232	9.10	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	Th-232	5.10	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	Th-232	10.80	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	Th-232	7.20	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	Th-232	4.50	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	Th-232	7.10	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	Th-232	9.10	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	Th-232	8.30	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	Th-232	7.10	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
784-C8-3	3022172.072	673937.2289	2.5	Th-232	1.40	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	Th-232	6.00	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	Th-232	2.30	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Tc-99	3.70	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	Th-232	0.80	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	Th-232	3.80	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Tc-99	3.60	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	Th-232	4.80	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	Th-232	3.60	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	Th-232	7.60	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	Th-232	9.30	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	Th-232	9.50	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	Th-232	4.20	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Tc-99	4.00	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	Th-232	6.20	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	Th-232	2.20	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	Th-232	2.10	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Tc-99	1.90	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	Th-232	4.70	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	Th-232	3.60	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	Th-232	1.80	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Tc-99	3.60	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	Th-232	9.30	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	Th-232	11.00	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	Th-232	1.70	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	Th-232	1.60	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	Th-232	2.70	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	Th-232	1.90	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Tc-99	1.00	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	Th-232	1.40	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	Th-232	7.10	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	Th-232	10.50	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Tc-99	3.90	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	Th-232	2.90	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	Th-232	12.40	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	Th-232	4.90	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Tc-99	3.40	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	Th-232	13.20	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	Th-232	5.30	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	Th-232	8.70	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Tc-99	1.50	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Tc-99	1.60	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	Th-232	13.60	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	Th-232	5.60	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	Th-232	9.50	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	Th-232	15.00	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	Th-232	8.10	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
865-B1-2	3022216.48	673816.7347	1.5	Th-232	18.70	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	Th-232	12.20	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	Th-232	6.00	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	Th-232	2.30	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	Th-232	3.10	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	Th-232	19.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Tc-99	0.90	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	Th-232	14.00	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	Th-232	9.80	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	Th-232	10.30	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	Th-232	3.00	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	Th-232	15.00	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-233/234	555.40	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-233/234	899.10	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-233/234	123.50	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	U-233/234	308.10	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	U-233/234	295.90	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	U-233/234	279.30	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	U-233/234	1070.20	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	U-233/234	374.60	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	U-233/234	454.30	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	U-233/234	354.60	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	U-233/234	452.90	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	U-233/234	1317.30	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	U-233/234	880.00	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	U-233/234	190.00	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	U-233/234	867.60	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	U-233/234	120.00	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	Th-230	1.70	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	U-233/234	31.00	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	U-233/234	710.00	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	Th-230	0.80	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	U-233/234	1500.00	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	U-233/234	430.00	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	U-233/234	381.80	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	U-233/234	637.20	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	U-233/234	626.60	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	U-233/234	227.50	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	Th-230	0.70	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	U-233/234	756.30	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	U-233/234	131.70	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	U-233/234	101.60	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	Th-230	1.10	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	U-233/234	690.10	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	U-233/234	307.80	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	U-233/234	46.80	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	Th-230	1.40	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
824-F2-2	3022168.598	673910.9963	1.5	U-233/234	1136.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	U-233/234	221.80	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	U-233/234	18.30	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	U-233/234	95.30	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	U-233/234	37.00	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	U-233/234	24.30	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	Th-230	0.70	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	U-233/234	16.00	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	U-233/234	94.50	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	U-233/234	348.30	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	Th-230	2.20	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	U-233/234	49.90	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	U-233/234	272.80	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	U-233/234	119.40	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	Th-230	1.70	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	U-233/234	245.50	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	U-233/234	167.30	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	U-233/234	424.00	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	Th-230	0.70	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	Th-230	1.00	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	U-233/234	305.20	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	U-233/234	440.30	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	U-233/234	504.60	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	U-233/234	217.50	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	U-233/234	430.00	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	U-233/234	527.70	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	U-233/234	333.50	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	U-233/234	260.00	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	U-233/234	50.10	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	U-233/234	53.30	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	U-233/234	370.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	Th-230	2.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	U-233/234	506.90	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	U-233/234	312.50	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	U-233/234	408.40	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	U-233/234	558.60	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	U-233/234	416.60	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-235	20.70	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-235	33.10	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-235	4.70	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	U-235	11.60	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	U-235	11.10	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	U-235	10.50	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	U-235	39.30	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	U-235	14.00	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	U-235	17.00	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	U-235	13.30	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
747-I2-1	3022240.437	673951.1278	0.5	U-235	19.60	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	U-235	48.20	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	U-235	27.00	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	U-235	6.20	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	U-235	32.00	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	U-235	5.70	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	U-233/234	39.70	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	U-235	1.40	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	U-235	21.00	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	U-233/234	39.40	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	U-235	44.00	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	U-235	14.00	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	U-235	14.30	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	U-235	23.60	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	U-235	23.20	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	U-235	8.60	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	U-233/234	53.50	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	U-235	28.00	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	U-235	5.00	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	U-235	3.90	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	U-233/234	6.20	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	U-235	25.60	pCi/g	Pre
823-H8-3	3022162.13	673924.1779	2.5	U-235	11.60	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	U-235	1.80	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	U-233/234	39.70	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	U-235	41.70	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	U-235	8.40	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	U-235	0.70	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	U-235	3.70	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	U-235	1.00	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	U-235	1.00	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	U-233/234	14.00	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	U-235	0.60	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	U-235	3.60	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	U-235	13.10	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	U-233/234	47.40	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	U-235	1.90	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	U-235	10.30	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	U-235	4.60	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	U-233/234	31.10	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	U-235	9.30	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	U-235	6.40	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	U-235	15.80	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	U-233/234	2.90	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	U-233/234	5.00	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	U-235	11.50	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	U-235	16.40	pCi/g	Pre

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Sample ID#	Sample Location Easting	Sample Location Northing	Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
863-E2-2	3022172.837	673862.3811	1.5	U-235	18.80	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	U-235	8.20	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	U-235	13.00	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	U-235	19.60	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	U-235	12.50	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	U-235	6.60	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	U-235	1.90	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	U-235	2.10	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	U-235	11.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	U-233/234	45.90	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	U-235	18.90	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	U-235	11.70	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	U-235	15.30	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	U-235	20.80	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	U-235	15.60	pCi/g	Pre
745-B1-1	3022171.689	673974.6528	0.5	U-238	32.60	pCi/g	Pre
745-B1-2	3022171.689	673974.6528	1.5	U-238	45.20	pCi/g	Pre
745-B1-3	3022171.689	673974.6528	2.5	U-238	11.80	pCi/g	Pre
745-H8-1	3022201.895	673976.3819	0.5	U-238	21.90	pCi/g	Pre
745-H8-2	3022201.895	673976.3819	1.5	U-238	21.30	pCi/g	Pre
746-G6-1	3022220.795	673957.8493	0.5	U-238	20.50	pCi/g	Pre
746-G6-2	3022220.795	673957.8493	1.5	U-238	50.90	pCi/g	Pre
746-H1-1	3022209.728	673970.411	0.5	U-238	25.00	pCi/g	Pre
746-H1-2	3022209.728	673970.411	1.5	U-238	28.50	pCi/g	Pre
747-B8-1	3022242.185	673920.9146	0.5	U-238	24.10	pCi/g	Pre
747-I2-1	3022240.437	673951.1278	0.5	U-238	8.80	pCi/g	Pre
784-C8-1	3022172.072	673937.2289	0.5	U-238	58.60	pCi/g	Pre
784-C8-2	3022172.072	673937.2289	1.5	U-238	11.00	pCi/g	Pre
784-C8-3	3022172.072	673937.2289	2.5	U-238	2.40	pCi/g	Pre
784-I2-1	3022168.335	673964.8319	0.5	U-238	44.10	pCi/g	Pre
784-I2-2	3022168.335	673964.8319	1.5	U-238	13.00	pCi/g	Pre
862-B3-4	3022143.373	673872.4632	3.5	U-238	5.50	pCi/g	Pre
784-I2-3	3022168.335	673964.8319	2.5	U-238	5.40	pCi/g	Pre
785-C2-1	3022182.515	673929.2677	0.5	U-238	8.90	pCi/g	Pre
823-G2-4	3022144.476	673933.5095	3.5	U-238	5.40	pCi/g	Pre
785-C2-2	3022182.515	673929.2677	1.5	U-238	11.00	pCi/g	Pre
785-C2-3	3022182.515	673929.2677	2.5	U-238	9.40	pCi/g	Pre
785-I8-1	3022210.111	673932.9871	0.5	U-238	25.30	pCi/g	Pre
786-C2-1	3022208.625	673909.3647	0.5	U-238	35.80	pCi/g	Pre
786-I8-1	3022236.22	673913.084	0.5	U-238	35.40	pCi/g	Pre
823-E2-1	3022140.5	673928.2891	0.5	U-238	17.80	pCi/g	Pre
823-H8-4	3022162.13	673924.1779	3.5	U-238	6.70	pCi/g	Pre
823-G2-2	3022144.476	673933.5095	1.5	U-238	40.20	pCi/g	Pre
823-G2-3	3022144.476	673933.5095	2.5	U-238	12.30	pCi/g	Pre
823-H8-1	3022162.13	673924.1779	0.5	U-238	10.30	pCi/g	Pre
784-I2-4	3022168.335	673964.8319	3.5	U-238	0.80	pCi/g	Pre
823-H8-2	3022162.13	673924.1779	1.5	U-238	37.80	pCi/g	Pre

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Sample ID#	Sample Location		Sample Depth (ft)	Contaminant Name	Analytic Result	Units	Period
	Easting	Northing					
823-H8-3	3022162.13	673924.1779	2.5	U-238	21.90	pCi/g	Pre
824-F2-1	3022168.598	673910.9963	0.5	U-238	6.10	pCi/g	Pre
824-F2-4	3022168.598	673910.9963	3.5	U-238	5.50	pCi/g	Pre
824-F2-2	3022168.598	673910.9963	1.5	U-238	53.00	pCi/g	Pre
824-F2-3	3022168.598	673910.9963	2.5	U-238	17.50	pCi/g	Pre
824-H9-1	3022190.851	673902.2846	0.5	U-238	3.20	pCi/g	Pre
825-I1-1	3022198.061	673900.9142	0.5	U-238	9.90	pCi/g	Pre
860-B8-1	3022104.209	673902.3178	0.5	U-238	4.20	pCi/g	Pre
860-B8-2	3022104.209	673902.3178	1.5	U-238	3.90	pCi/g	Pre
784-C8-4	3022172.072	673937.2289	3.5	U-238	0.60	pCi/g	Pre
860-B8-3	3022104.209	673902.3178	2.5	U-238	3.00	pCi/g	Pre
861-C2-1	3022116.641	673896.9668	0.5	U-238	9.80	pCi/g	Pre
861-C2-2	3022116.641	673896.9668	1.5	U-238	23.80	pCi/g	Pre
863-E2-4	3022172.837	673862.3811	3.5	U-238	6.20	pCi/g	Pre
861-C2-3	3022116.641	673896.9668	2.5	U-238	6.40	pCi/g	Pre
861-G6-2	3022135.038	673899.4463	1.5	U-238	20.10	pCi/g	Pre
861-G6-3	3022135.038	673899.4463	2.5	U-238	11.50	pCi/g	Pre
901-I8-4	3022176.573	673834.7781	3.5	U-238	4.60	pCi/g	Pre
861-I2-1	3022128.57	673912.6279	0.5	U-238	18.80	pCi/g	Pre
862-B3-1	3022143.373	673872.4632	0.5	U-238	14.50	pCi/g	Pre
862-B3-2	3022143.373	673872.4632	1.5	U-238	27.20	pCi/g	Pre
785-C2-4	3022182.515	673929.2677	3.5	U-238	0.70	pCi/g	Pre
785-C2-5	3022182.515	673929.2677	4.5	U-238	0.60	pCi/g	Pre
862-B3-3	3022143.373	673872.4632	2.5	U-238	21.70	pCi/g	Pre
863-E2-1	3022172.837	673862.3811	0.5	U-238	27.90	pCi/g	Pre
863-E2-2	3022172.837	673862.3811	1.5	U-238	30.60	pCi/g	Pre
863-E2-3	3022172.837	673862.3811	2.5	U-238	17.30	pCi/g	Pre
865-B1-1	3022216.48	673816.7347	0.5	U-238	8.80	pCi/g	Pre
865-B1-2	3022216.48	673816.7347	1.5	U-238	31.50	pCi/g	Pre
865-B1-3	3022216.48	673816.7347	2.5	U-238	23.10	pCi/g	Pre
899-J9-1	3022128.953	673875.204	0.5	U-238	13.00	pCi/g	Pre
899-J9-2	3022128.953	673875.204	1.5	U-238	6.40	pCi/g	Pre
899-J9-3	3022128.953	673875.204	2.5	U-238	6.70	pCi/g	Pre
900-I8-1	3022150.463	673854.6811	0.5	U-238	34.00	pCi/g	Pre
865-B1-4	3022216.48	673816.7347	3.5	U-238	6.00	pCi/g	Pre
900-I8-2	3022150.463	673854.6811	1.5	U-238	30.70	pCi/g	Pre
900-I8-3	3022150.463	673854.6811	2.5	U-238	22.10	pCi/g	Pre
901-I8-1	3022176.573	673834.7781	0.5	U-238	26.50	pCi/g	Pre
901-I8-2	3022176.573	673834.7781	1.5	U-238	32.70	pCi/g	Pre
901-I8-3	3022176.573	673834.7781	2.5	U-238	26.80	pCi/g	Pre

Appendix B

VSP Summary Reports

Appendix B.1

VSP Summary Reports

Survey Unit 4

APPENDIX B.1

VSP SUMMARY REPORT, SURVEY UNIT 4

Systematic sampling locations for comparing two population means or medians (site and reference) [nonparametric - MARSSIM]

Summary

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.1-1 summarizes the sampling design developed. Figure B.1-1 shows sampling locations in the field and Table B.1-2 lists predetermined sampling location coordinates.

Table B.1-1 Summary of Sampling Design, Survey Unit 4

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Compare a site mean or median to a reference area mean or median
Type of Sampling Design	Nonparametric
Sample Placement (Location) in the Field	Systematic with a random start location
Working (Null) Hypothesis	The difference between the medians(means) is greater than or equal to the threshold
Formula for calculating number of sampling locations	Wilcoxon Rank Sum Test - MARSSIM version
Calculated total number of samples for each survey and reference area [a]	41
Number of samples on map [b]	41
Number of selected sample areas [c]	1
Specified sampling area [d]	147587.57 ft^2
Size of grid / Area of grid [e]	59.9975 feet / 3599.7 ft^2
Grid pattern	Square

[a] Based on the analyte with the highest minimum number of survey unit samples.
[b] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[c] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[d] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[e] Size of grid / Area of grid gives the linear and square dimensions of the grid used to systematically place samples.

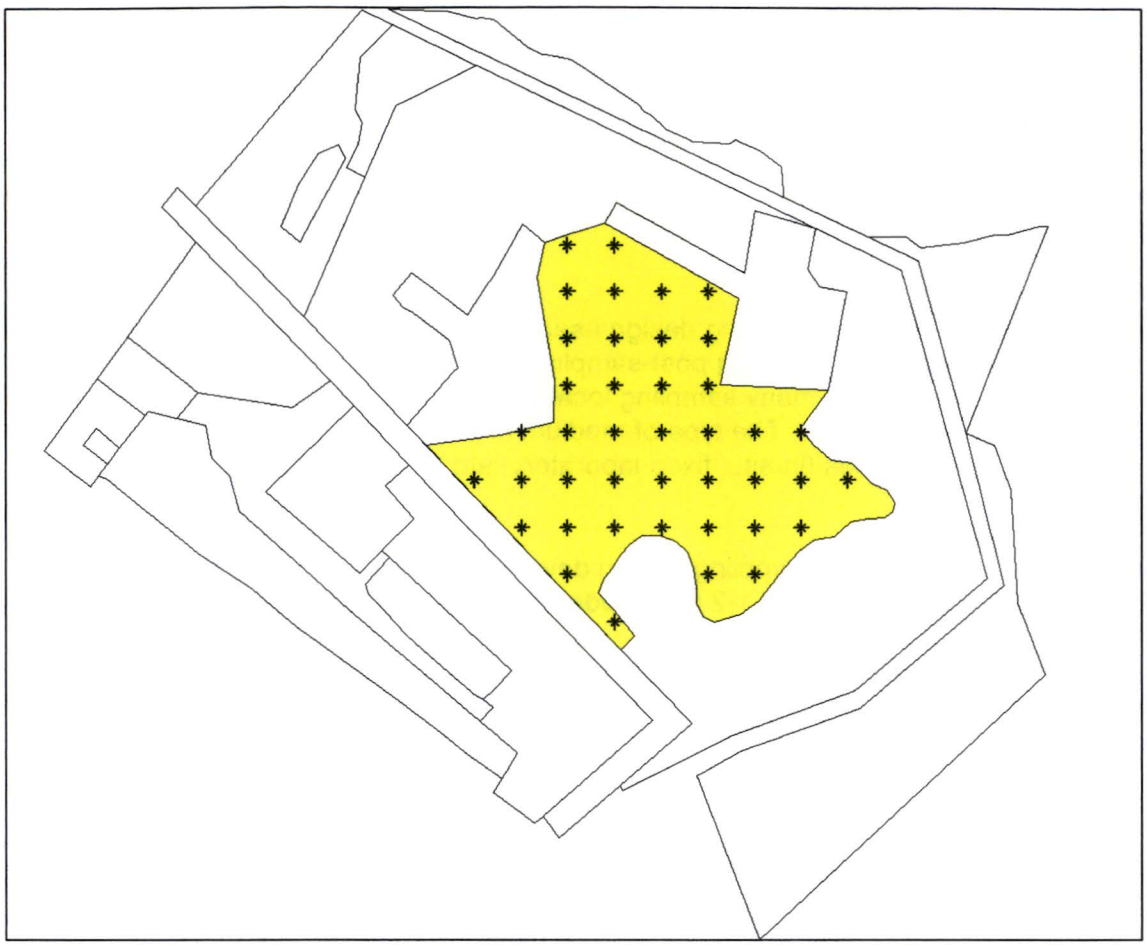


Figure B.1-1 VSP-Generated Sample Locations, Survey Unit 4

Table B.1-2 Survey Unit 4 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference Area/ Survey Unit
3022543.3357	673734.0237	Systematic	Survey Unit
3022483.3382	673794.0212	Systematic	Survey Unit
3022663.3306	673794.0212	Systematic	Survey Unit
3022723.3281	673794.0212	Systematic	Survey Unit
3022423.3408	673854.0187	Systematic	Survey Unit
3022483.3382	673854.0187	Systematic	Survey Unit
3022543.3357	673854.0187	Systematic	Survey Unit
3022603.3332	673854.0187	Systematic	Survey Unit
3022663.3306	673854.0187	Systematic	Survey Unit
3022723.3281	673854.0187	Systematic	Survey Unit
3022783.3256	673854.0187	Systematic	Survey Unit
3022363.3433	673914.0161	Systematic	Survey Unit
3022423.3408	673914.0161	Systematic	Survey Unit
3022483.3382	673914.0161	Systematic	Survey Unit
3022543.3357	673914.0161	Systematic	Survey Unit
3022603.3332	673914.0161	Systematic	Survey Unit
3022663.3306	673914.0161	Systematic	Survey Unit
3022723.3281	673914.0161	Systematic	Survey Unit
3022783.3256	673914.0161	Systematic	Survey Unit
3022843.3231	673914.0161	Systematic	Survey Unit
3022423.3408	673974.0136	Systematic	Survey Unit
3022483.3382	673974.0136	Systematic	Survey Unit
3022543.3357	673974.0136	Systematic	Survey Unit
3022603.3332	673974.0136	Systematic	Survey Unit
3022663.3306	673974.0136	Systematic	Survey Unit
3022723.3281	673974.0136	Systematic	Survey Unit
3022783.3256	673974.0136	Systematic	Survey Unit
3022483.3382	674034.0111	Systematic	Survey Unit
3022543.3357	674034.0111	Systematic	Survey Unit
3022603.3332	674034.0111	Systematic	Survey Unit
3022663.3306	674034.0111	Systematic	Survey Unit
3022483.3382	674094.0086	Systematic	Survey Unit
3022543.3357	674094.0086	Systematic	Survey Unit
3022603.3332	674094.0086	Systematic	Survey Unit
3022663.3306	674094.0086	Systematic	Survey Unit
3022483.3382	674154.0060	Systematic	Survey Unit
3022543.3357	674154.0060	Systematic	Survey Unit
3022603.3332	674154.0060	Systematic	Survey Unit
3022663.3306	674154.0060	Systematic	Survey Unit
3022483.3382	674214.0035	Systematic	Survey Unit
3022543.3357	674214.0035	Systematic	Survey Unit

Primary Sampling Objective

The primary purpose of sampling at this site is to compare a site median or mean value with a reference area median or mean value. This is achieved by testing the difference between the site and reference area medians (means). The working hypothesis (or 'null' hypothesis) is that the difference between the site median (mean) and the reference area median (mean) is equal to or exceeds the threshold. The alternative hypothesis is that the difference is less than the

threshold. VSP calculates the number of samples required to reject the null hypothesis in favor of the alternative one, given a selected sampling approach and inputs to the associated equation.

Selected Sampling Approach

A nonparametric systematic sampling approach with a random start was used to determine the number of samples and to specify sampling locations. A nonparametric formula was chosen because the conceptual model and historical information (e.g., historical data from this site or a very similar site) indicate that typical parametric assumptions may not be true.

Both parametric and non-parametric equations rely on assumptions about the population. Typically, however, non-parametric equations require fewer assumptions and allow for more uncertainty about the statistical distribution of values at the site. The trade-off is that if the parametric assumptions are valid, the required number of samples is usually less than if a non-parametric equation was used.

Locating the sample points over a systematic grid with a random start ensures spatial coverage of the site. Statistical analyses of systematically collected data are valid if a random start to the grid is used. One disadvantage of systematically collected samples is that spatial variability or patterns may not be discovered if the grid spacing is large relative to the spatial patterns.

Number of Total Samples: Calculation Equation and Inputs

The equation used to calculate the number of samples is based on Wilcoxon Rank Sum test published in MARSSIM (US EPA, et al, 1997). For this site, the null hypothesis is rejected in favor of the alternative one if the difference between the site and reference area median (mean) is sufficiently smaller than the threshold. The number of samples to collect is calculated so that if the inputs to the equation are true, the calculated number of samples will cause the null hypothesis to be rejected.

Equation B.1-1 and Equation B.1-2 were used to calculate the number of samples:

$$n + m = \frac{\left(z_{1-\alpha} + z_{1-\beta}\right)^2}{3\left(P_r - 0.5\right)^2}$$

Equation B.1-1

where

$$P_r = \Phi\left(\frac{\Delta}{\sqrt{2s_{total}}}\right)$$

Equation B.1-2

where:

$\Phi(z)$ is the cumulative standard normal distribution on $(-\infty,z)$ (see PNNL-13450 for details),

P_r is the probability that a measurement collected from a random location at the study site is greater than a measurement collected from a random location in a reference area. See PNNL-13450 for details,

n is the number of samples for the site and is equal to m,

m is the number of samples for the reference area and is equal to n,

S_{total} is the estimated standard deviation of the measured values including analytical error,

Δ is the width of the gray region,

α is the acceptable probability of incorrectly concluding the difference between the medians (means) is less than the threshold,

β is the acceptable probability of incorrectly concluding the difference between the medians (means) exceeds the threshold,

$Z_{1-\alpha}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\alpha}$ is $1-\alpha$,

$Z_{1-\beta}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\beta}$ is $1-\beta$.

Note: MARSSIM suggests that the number of samples should be increased by at least 20% to account for missing or unusable data and uncertainty in the calculated value of n. VSP allows a user-supplied percent overage as discussed in MARSSIM (EPA 2000, p. 5-33).

The values of these inputs that result in the calculated number of sampling locations are presented in Table B.1-3:

Table B.1-3 Input Parameters in VSP Sample Design

Parameter	Value
S	1.56
Δ	1.2
α	5%
β	10%
$Z_{1-\alpha}$	1.64485 [a]
$Z_{1-\beta}$	1.28155 [b]
MARSSIM Overage	20%

[a] This value is automatically calculated by VSP based upon the user defined value of α.
[b] This value is automatically calculated by VSP based upon the user defined value of β.

Figure B.1-2 is a performance goal diagram, described in EPA's QA/G-4 guidance (EPA, 2000). It shows the probability of concluding the sample area is dirty (the probability that the difference between the site median(mean) and the reference area median(mean) exceeds the threshold) on the vertical axis versus a range of possible true differences between the medians(means) on the horizontal axis. This graph contains all of the inputs to the number of samples equation and pictorially represents the calculation.

The red vertical line is shown at the threshold (action limit) on the horizontal axis. The width of the gray shaded area is equal to Δ; the upper horizontal dashed blue line is positioned at $1-\alpha$ on

the vertical axis; the lower horizontal dashed blue line is positioned at β on the vertical axis. The vertical green line is positioned at one standard deviation below the threshold. The shape of the red curve corresponds to the estimates of variability. The calculated number of samples results in the curve that passes through the lower bound of Δ at β and the upper bound of Δ at $1-\alpha$. If any of the inputs change, the number of samples that result in the correct curve changes.

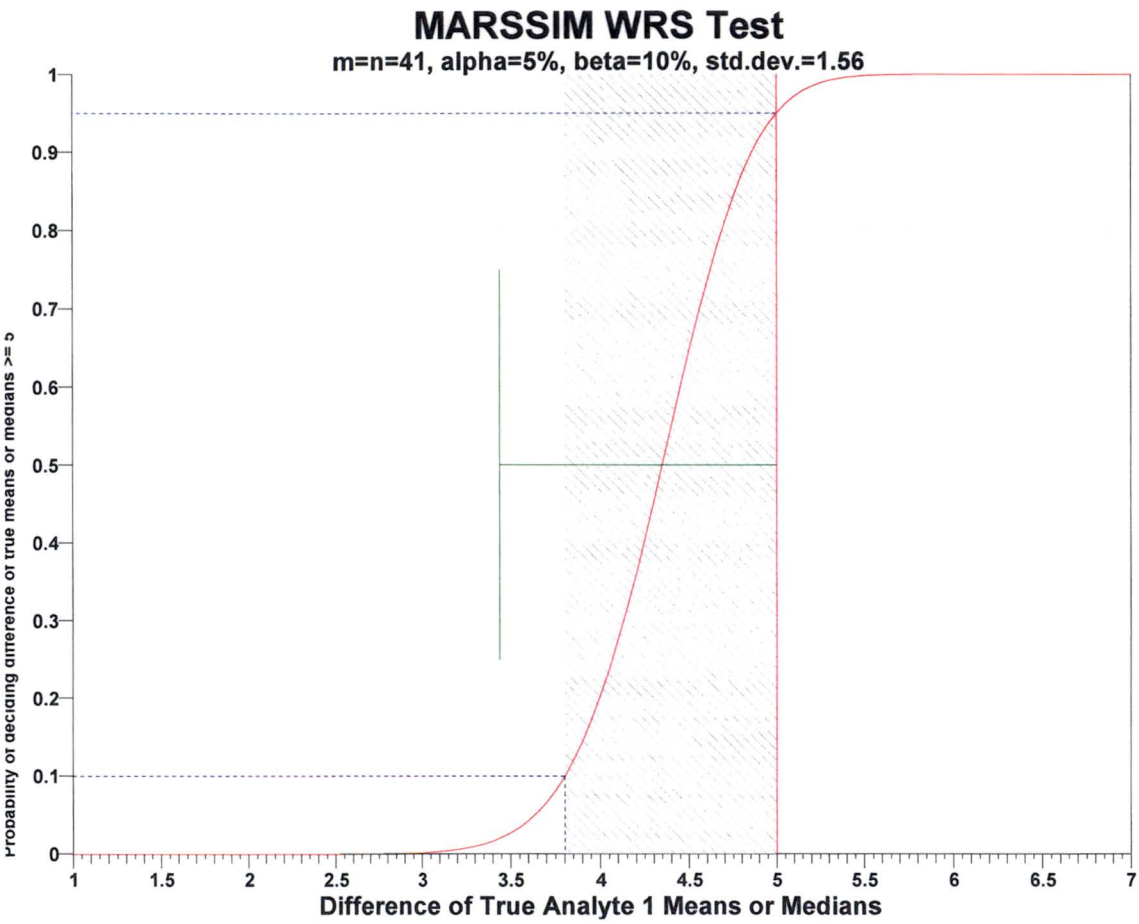


Figure B.1-2 A-Priori Power Curve for WRS Test

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

1. although the population does not have to be normally distributed, the test statistic is approximately normally distributed,
2. the variances of the site and reference populations are equal,
3. the variance estimate, S^2, is reasonable and representative of the populations being sampled,
4. the population values are not spatially or temporally correlated, and
5. the sampling locations will be selected probabilistically.

The first four assumptions will be assessed in a post data collection analysis. The last assumption is valid because the gridded sample locations were selected based on a random start.

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the lower bound of gray region (% of action level), beta (%), probability of mistakenly concluding that μ > action level and alpha (%), probability of mistakenly concluding that μ < action level. Table B.1-4 shows the results of this analysis.

Table B.1-4 Change in Number of Samples by Varying LBGR, α, and β Parameters

Number of Samples							
AL=3.7		α=5		α=10		α=15	
		s=3.12	s=1.56	s=3.12	s=1.56	s=3.12	s=1.56
LBGR=90	β=5	190	52	150	41	126	35
	β=10	150	41	116	32	94	26
	β=15	126	35	94	26	76	21
LBGR=80	β=5	190	52	150	41	126	35
	β=10	150	41	116	32	94	26
	β=15	126	35	94	26	76	21
LBGR=70	β=5	190	52	150	41	126	35
	β=10	150	41	116	32	94	26
	β=15	126	35	94	26	76	21

LBGR = Lower Bound of Gray Region (% of Action Level)
β = Beta (%), Probability of mistakenly concluding that μ > action level
α = Alpha (%), Probability of mistakenly concluding that μ < action level
AL = Action Level (Threshold)

Appendix B.2

VSP Summary Reports

Survey Unit 6

APPENDIX B.2

VSP SUMMARY REPORT, SURVEY UNIT 6

Systematic sampling locations for detecting an area of elevated values (hot spot)

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.2-1 summarizes the sampling design developed. Figure B.2-1 shows sampling locations in the field and Table B.2-2 lists sampling location coordinates.

Table B.2-1 Summary of Sampling Design, Survey Unit 6

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Detect the presence of a hot spot that has a specified size and shape
Type of Sampling Design	Hot spot
Sample Placement (Location) in the Field	Systematic (Hot Spot) with a random start location
Formula for calculating minimum size of hot spot	Algorithm developed by Singer and Wickman (1969)
Calculated total number of samples	61
Type of samples	Point Samples
Number of samples on map [a]	60
Number of selected sample areas [b]	1
Specified sampling area [c]	32374.40 ft^2
Grid pattern	Square
Size of grid / Area of grid [d]	7.07106 meters / 538.194 m^2

[a] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[b] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[c] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[d] Size of grid / Area of grid cell gives the linear and square dimensions of the grid used to systematically place samples.

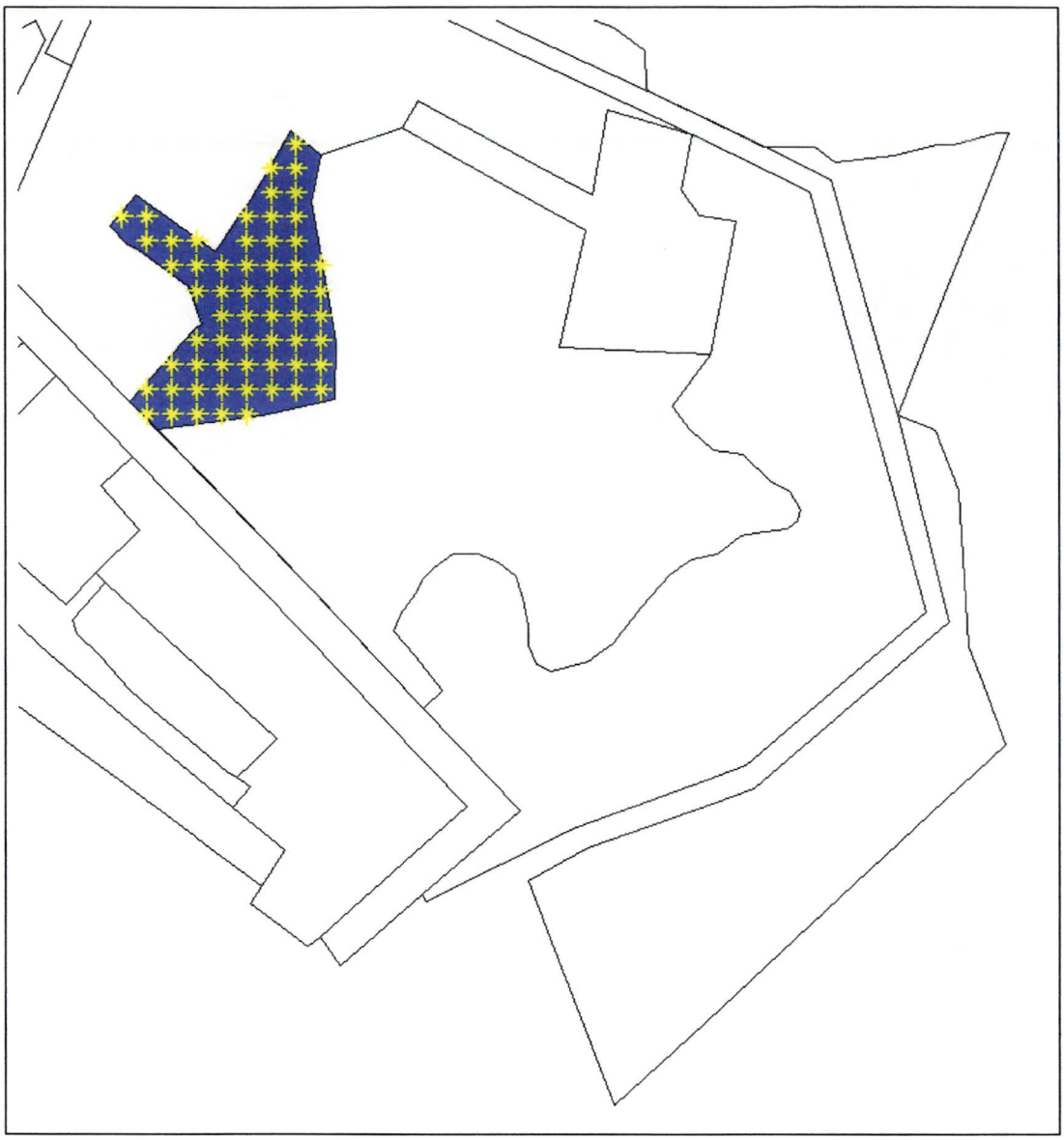


Figure B.2-1 VSP-Generated Sample Locations, Survey Unit 6

Table B.2-2 Survey Unit 6 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Survey Unit/ Reference Area
3022290.8826	673972.4792	Hotspot	Survey Unit
3022314.0816	673972.4792	Hotspot	Survey Unit
3022337.2805	673972.4792	Hotspot	Survey Unit
3022360.4794	673972.4792	Hotspot	Survey Unit
3022383.6784	673972.4792	Hotspot	Survey Unit
3022290.8826	673995.6782	Hotspot	Survey Unit
3022314.0816	673995.6782	Hotspot	Survey Unit
3022337.2805	673995.6782	Hotspot	Survey Unit
3022360.4794	673995.6782	Hotspot	Survey Unit
3022383.6784	673995.6782	Hotspot	Survey Unit
3022406.8773	673995.6782	Hotspot	Survey Unit
3022430.0763	673995.6782	Hotspot	Survey Unit
3022453.2752	673995.6782	Hotspot	Survey Unit
3022314.0816	674018.8771	Hotspot	Survey Unit
3022337.2805	674018.8771	Hotspot	Survey Unit
3022360.4794	674018.8771	Hotspot	Survey Unit
3022383.6784	674018.8771	Hotspot	Survey Unit
3022406.8773	674018.8771	Hotspot	Survey Unit
3022430.0763	674018.8771	Hotspot	Survey Unit
3022453.2752	674018.8771	Hotspot	Survey Unit
3022337.2805	674042.0761	Hotspot	Survey Unit
3022360.4794	674042.0761	Hotspot	Survey Unit
3022383.6784	674042.0761	Hotspot	Survey Unit
3022406.8773	674042.0761	Hotspot	Survey Unit
3022430.0763	674042.0761	Hotspot	Survey Unit
3022453.2752	674042.0761	Hotspot	Survey Unit
3022360.4794	674065.2750	Hotspot	Survey Unit
3022383.6784	674065.2750	Hotspot	Survey Unit
3022406.8773	674065.2750	Hotspot	Survey Unit
3022430.0763	674065.2750	Hotspot	Survey Unit
3022453.2752	674065.2750	Hotspot	Survey Unit
3022337.2805	674088.4740	Hotspot	Survey Unit
3022360.4794	674088.4740	Hotspot	Survey Unit
3022383.6784	674088.4740	Hotspot	Survey Unit
3022406.8773	674088.4740	Hotspot	Survey Unit
3022430.0763	674088.4740	Hotspot	Survey Unit
3022453.2752	674088.4740	Hotspot	Survey Unit
3022314.0816	674111.6729	Hotspot	Survey Unit
3022337.2805	674111.6729	Hotspot	Survey Unit
3022360.4794	674111.6729	Hotspot	Survey Unit
3022383.6784	674111.6729	Hotspot	Survey Unit
3022406.8773	674111.6729	Hotspot	Survey Unit
3022430.0763	674111.6729	Hotspot	Survey Unit
3022453.2752	674111.6729	Hotspot	Survey Unit

3022290.8826	674134.8719	Hotspot	Survey Unit
3022314.0816	674134.8719	Hotspot	Survey Unit
3022337.2805	674134.8719	Hotspot	Survey Unit
3022383.6784	674134.8719	Hotspot	Survey Unit
3022406.8773	674134.8719	Hotspot	Survey Unit
3022430.0763	674134.8719	Hotspot	Survey Unit
3022267.6837	674158.0708	Hotspot	Survey Unit
3022290.8826	674158.0708	Hotspot	Survey Unit
3022383.6784	674158.0708	Hotspot	Survey Unit
3022406.8773	674158.0708	Hotspot	Survey Unit
3022430.0763	674158.0708	Hotspot	Survey Unit
3022406.8773	674181.2698	Hotspot	Survey Unit
3022430.0763	674181.2698	Hotspot	Survey Unit
3022406.8773	674204.4687	Hotspot	Survey Unit
3022430.0763	674204.4687	Hotspot	Survey Unit
3022430.0763	674227.6676	Hotspot	Survey Unit

Primary Sampling Objective
The primary purpose of sampling at this site is to detect "hot spots" (local areas of elevated concentration) of a given size and shape with a specified probability, 1-β.

Selected Sampling Approach
This sampling approach requires systematic grid sampling with a random start. If a systematic grid is not used, the probability of detecting a hot spot of a given size and shape will be different than desired or calculated.

Number of Total Samples: Calculation Equation and Inputs
The algorithm used to calculate the grid size (and hence, the number of samples) is based on work by Singer and Wickman for locating geologic deposits [see Singer and Wickman (1969) and Hassig et al. (2004) for details]. Inputs to the algorithm include the size, shape, and orientation of a hot spot of interest, an acceptable probability of finding a hot spot, the desired type of sampling grid, and the sampling budget. For this design, the smallest hot spot that could be detected was calculated based on the given grid size and other parameters.

The values of these inputs that result in the smallest hot spot that could be detected are presented in Table B.2-3:

Table B.2-3 Input Parameters in VSP Sample Design

Parameter	Description	Value
Inputs		
1-β	Probability of detection	90.96%
Grid Type	Grid pattern (Square, Triangular or Rectangular)	Square
Grid Size	Spacing between samples	7.07106 meters
Grid Area	Area represented by one grid	538.194 m^2
Sample Type	Point samples or square cells	Points
Hot Spot Shape	Hot spot height to width ratio	1
Angle	Angle of orientation between hot spot and grid	Random
Sampling Area	Total area to sample	32374.40 ft^2
Outputs		
Hot Spot Size	Length of hot spot semi-major axis	4.99256 meters
Hot Spot Area [a]	Area of hot spot (Length^2 * Shape * π)	78.3057 m^2

[a] Length of semi-major axis is used by Singer-Wickman algorithm. Hot spot area is provided for informational purposes.

Figure B.2-2 shows the relationship between the number of samples and the probability of finding the hot spot. The dashed blue line shows the actual number of samples for this design (which may differ from the optimum number of samples because of edge effects).

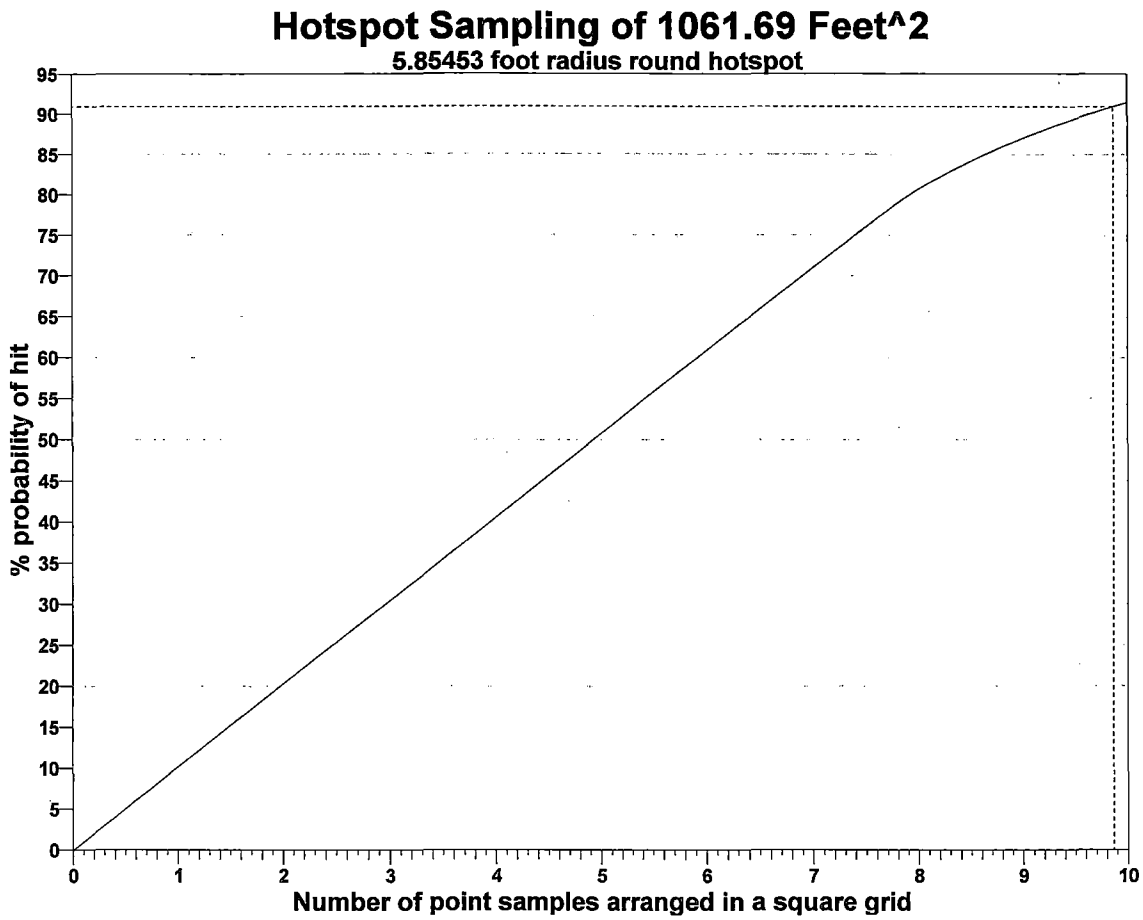


Figure B.2-2 Probability of Identifying a Hot Spot vs. Number of Samples

Assumptions that Underlie the VSP Locating a Hot Spot Design Method

1. In the decision area there is at least one hotspot of the designated size, which is circular or elliptical in shape.
2. The level of contamination that defines a hotspot is well defined.
3. The location of the hotspot is unknown, and if a hotspot is present, all locations within the sampling area are equally likely to contain the hotspot.
4. With a randomly determined starting location, samples are taken on a square, rectangular or triangular (equilateral) grid pattern that covers the decision area.
5. Each sample is collected, handled, measured or inspected using approved methods that yield sufficiently precise measurements.
6. A very small proportion of the surface of the decision area will be sampled. The area sampled by a single sample is much smaller than the hotspot of interest.
7. The sample methodology and sample analysis process is the same for all sample locations.
8. There are no classification errors. If a hotspot is sampled, then contamination is detected (i.e., no false negatives). If an uncontaminated area is sampled, it is not mistakenly identified as a hotspot (i.e., no false positives).

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the probability of hit (%), hot spot shape (height to width ratio), and hot spot size (length of semi-major axis) and examining the resulting changes in the number of samples. Table B.2-4 shows the results of this analysis.

Table B.2-4 Change in Number of Samples by Varying Hot Spot Size and Shape

Number of Samples				
		Ang=0	Ang=22.5	Ang=45
Shp=0.8	Size=1.99506	315	303	293
	Size=3.99012	79	76	74
	Size=5.98518	35	34	33
Shp=0.9	Size=1.99506	271	268	266
	Size=3.99012	68	67	67
	Size=5.98518	31	30	30
Shp=1	Size=1.99506	241	241	241
	Size=3.99012	61	61	61
	Size=5.98518	27	27	27

Shp = Hot Spot Shape (Height to Width Ratio)
Size = Hot Spot Size (Length of Semi-major Axis)
Ang = Angle of Orientation (between Hot Spot and Grid)

Appendix B.3

VSP Summary Reports

Survey Unit 7

APPENDIX B.3

VSP SUMMARY REPORT, SURVEY UNIT 7

Systematic sampling locations for comparing two population means or medians (site and reference) [nonparametric - MARSSIM]

Summary

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.3-1 summarizes the sampling design developed.
Figure B.3-1 shows sampling locations in the field and Table B.3-2 lists predetermined sampling location coordinates.

Table B.3-1 Summary of Sampling Design, Survey Unit 7

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Compare a site mean or median to a reference area mean or median
Type of Sampling Design	Nonparametric
Sample Placement (Location) in the Field	Systematic with a random start location
Working (Null) Hypothesis	The difference between the medians(means) is greater than or equal to the threshold
Formula for calculating number of sampling locations	Wilcoxon Rank Sum Test - MARSSIM version
Calculated total number of samples for each survey and reference area [a]	32
Number of samples on map [b]	32
Number of selected sample areas [c]	1
Specified sampling area [d]	109930.75 ft^2
Size of grid / Area of grid [e]	58.6117 feet / 3435.34 ft^2
Grid pattern	Square

[a] Based on the analyte with the highest minimum number of survey unit samples.
[b] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[c] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[d] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[e] Size of grid / Area of grid gives the linear and square dimensions of the grid used to systematically place samples.

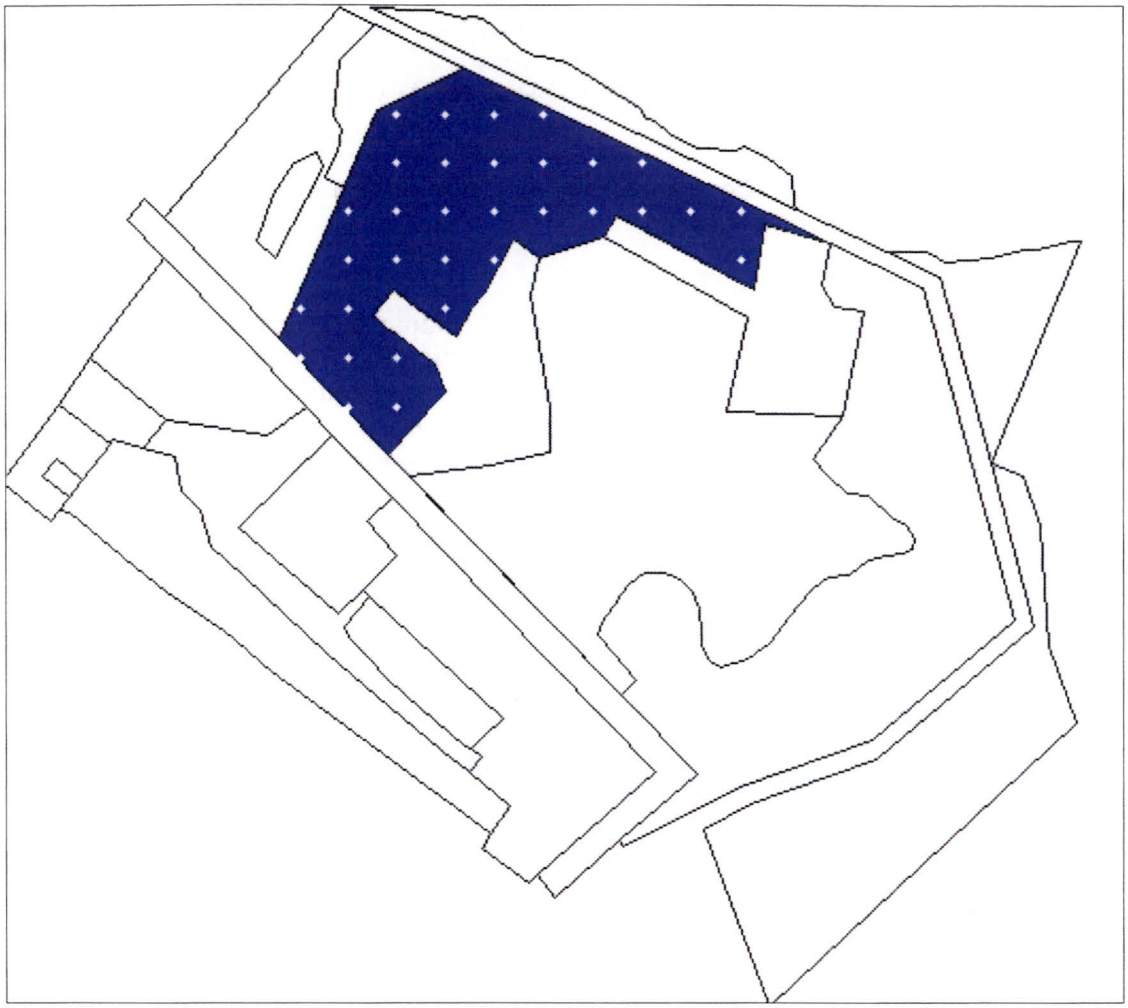


Figure B.3-1 VSP-Generated Sample Locations, Survey Unit 7

Table B.3-2 Survey Unit 7 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3022225.3562	674039.1564	Systematic	Survey Unit
3022283.9680	674039.1564	Systematic	Survey Unit
3022166.7445	674097.7681	Systematic	Survey Unit
3022225.3562	674097.7681	Systematic	Survey Unit
3022283.9680	674097.7681	Systematic	Survey Unit
3022166.7445	674156.3799	Systematic	Survey Unit
3022225.3562	674156.3799	Systematic	Survey Unit
3022342.5797	674156.3799	Systematic	Survey Unit
3022225.3562	674214.9916	Systematic	Survey Unit
3022283.9680	674214.9916	Systematic	Survey Unit
3022342.5797	674214.9916	Systematic	Survey Unit
3022401.1915	674214.9916	Systematic	Survey Unit
3022694.2502	674214.9916	Systematic	Survey Unit
3022225.3562	674273.6034	Systematic	Survey Unit
3022283.9680	674273.6034	Systematic	Survey Unit
3022342.5797	674273.6034	Systematic	Survey Unit
3022401.1915	674273.6034	Systematic	Survey Unit
3022459.8032	674273.6034	Systematic	Survey Unit
3022518.4149	674273.6034	Systematic	Survey Unit
3022577.0267	674273.6034	Systematic	Survey Unit
3022635.6384	674273.6034	Systematic	Survey Unit
3022694.2502	674273.6034	Systematic	Survey Unit
3022283.9680	674332.2151	Systematic	Survey Unit
3022342.5797	674332.2151	Systematic	Survey Unit
3022401.1915	674332.2151	Systematic	Survey Unit
3022459.8032	674332.2151	Systematic	Survey Unit
3022518.4149	674332.2151	Systematic	Survey Unit
3022577.0267	674332.2151	Systematic	Survey Unit
3022283.9680	674390.8268	Systematic	Survey Unit
3022342.5797	674390.8268	Systematic	Survey Unit
3022401.1915	674390.8268	Systematic	Survey Unit
3022459.8032	674390.8268	Systematic	Survey Unit

Primary Sampling Objective

The primary purpose of sampling at this site is to compare a site median or mean value with a reference area median or mean value. This is achieved by testing the difference between the site and reference area medians (means). The working hypothesis (or 'null' hypothesis) is that the difference between the site median (mean) and the reference area median(mean) is equal to or exceeds the threshold. The alternative hypothesis is that the difference is less than the threshold. VSP calculates the number of samples required to reject the null hypothesis in favor of the alternative one, given a selected sampling approach and inputs to the associated equation.

Selected Sampling Approach
A nonparametric systematic sampling approach with a random start was used to determine the number of samples and to specify sampling locations. A nonparametric formula was chosen because the conceptual model and historical information (e.g., historical data from this site or a very similar site) indicate that typical parametric assumptions may not be true.

Both parametric and non-parametric equations rely on assumptions about the population. Typically, however, non-parametric equations require fewer assumptions and allow for more uncertainty about the statistical distribution of values at the site. The trade-off is that if the parametric assumptions are valid, the required number of samples is usually less than if a non-parametric equation was used.

Locating the sample points over a systematic grid with a random start ensures spatial coverage of the site. Statistical analyses of systematically collected data are valid if a random start to the grid is used. One disadvantage of systematically collected samples is that spatial variability or patterns may not be discovered if the grid spacing is large relative to the spatial patterns.

Number of Total Samples: Calculation Equation and Inputs
The equation used to calculate the number of samples is based on Wilcoxon Rank Sum test published in MARSSIM (US EPA, et al, 1997). For this site, the null hypothesis is rejected in favor of the alternative one if the difference between the site and reference area median (mean) is sufficiently smaller than the threshold. The number of samples to collect is calculated so that if the inputs to the equation are true, the calculated number of samples will cause the null hypothesis to be rejected.

Equation B.3-1 and Equation B.3-2 were used to calculate the number of samples:

$$n + m = \frac{\left(z_{1-\alpha} + z_{1-\beta}\right)^2}{3\left(P_r - 0.5\right)^2}$$

Equation B.3-1

where

$$P_r = \Phi\left(\frac{\Delta}{\sqrt{2s_{total}}}\right)$$

Equation B.3-2

where:

$\Phi(z)$ is the cumulative standard normal distribution on $(-\infty,z)$ (see PNNL-13450 for details),

P_r is the probability that a measurement collected from a random location at the study site is greater than a measurement collected from a random location in a reference area. See PNNL-13450 for details,

n is the number of samples for the site and is equal to m,

m is the number of samples for the reference area and is equal to n,

S_{total} is the estimated standard deviation of the measured values including analytical error,

Δ is the width of the gray region,

α is the acceptable probability of incorrectly concluding the difference between the medians (means) is less than the threshold,

β is the acceptable probability of incorrectly concluding the difference between the medians (means) exceeds the threshold,

$Z_{1-\alpha}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\alpha}$ is $1-\alpha$,

$Z_{1-\beta}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\beta}$ is $1-\beta$.

Note: MARSSIM suggests that the number of samples should be increased by at least 20% to account for missing or unusable data and uncertainty in the calculated value of n. VSP allows a user-supplied percent overage as discussed in MARSSIM (EPA 2000, p. 5-33).

The values of these inputs that result in the calculated number of sampling locations are presented in Table B.3-3:

Table B.3-3 Input Parameters in VSP Sample Design

Parameter	Value
S	1.69
Δ	1.5
α	5%
β	10%
$Z_{1-\alpha}$	1.64485 [a]
$Z_{1-\beta}$	1.28155 [b]
MARSSIM Overage	20%

[a] This value is automatically calculated by VSP based upon the user defined value of α.
[b] This value is automatically calculated by VSP based upon the user defined value of β.

Figure B.3-2 is a performance goal diagram, described in EPA's QA/G-4 guidance (EPA, 2000). It shows the probability of concluding the sample area is dirty (the probability that the difference between the site median(mean) and the reference area median(mean) exceeds the threshold) on the vertical axis versus a range of possible true differences between the medians(means) on the horizontal axis. This graph contains all of the inputs to the number of samples equation and pictorially represents the calculation.

The red vertical line is shown at the threshold (action limit) on the horizontal axis. The width of the gray shaded area is equal to Δ; the upper horizontal dashed blue line is positioned at 1-α on the vertical axis; the lower horizontal dashed blue line is positioned at β on the vertical axis. The vertical green line is positioned at one standard deviation below the threshold. The shape of the red curve corresponds to the estimates of variability. The calculated number of samples results in the curve that passes through the lower bound of Δ at β and the upper bound of Δ at 1-α. If any of the inputs change, the number of samples that result in the correct curve changes.

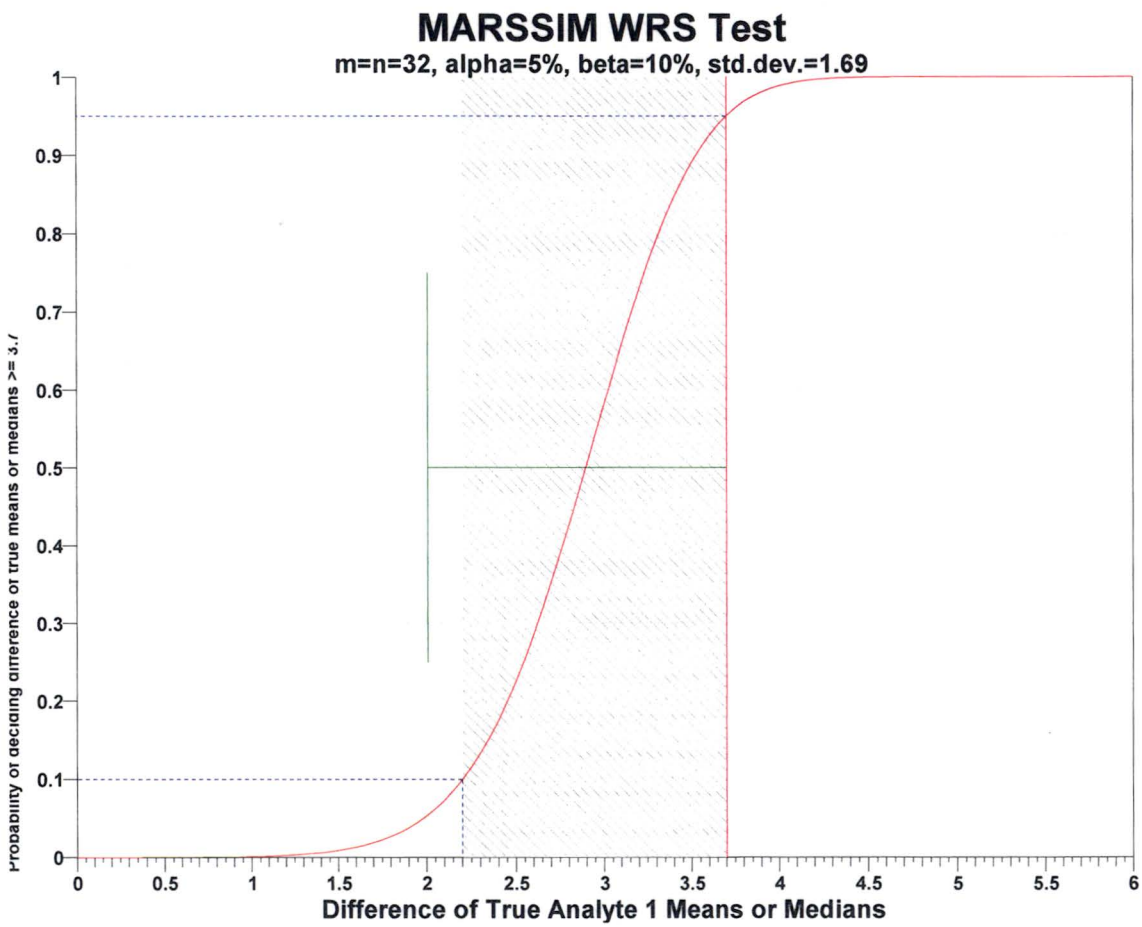


Figure B.3-2 A-Priori Power Curve for WRS Test

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

1. although the population does not have to be normally distributed, the test statistic is approximately normally distributed,
2. the variances of the site and reference populations are equal,
3. the variance estimate, S^2, is reasonable and representative of the populations being sampled,
4. the population values are not spatially or temporally correlated, and
5. the sampling locations will be selected probabilistically.

The first four assumptions will be assessed in a post data collection analysis. The last assumption is valid because the gridded sample locations were selected based on a random start.

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the lower bound of gray region (% of action level), beta (%), probability of mistakenly concluding that μ > action level and alpha (%), probability of mistakenly concluding that μ < action level. Table B.3-4 shows the results of this analysis.

Table B.3-4 Change in Number of Samples by Varying LBGR, α, and β Parameters

Number of Samples				
AL=3.7		**α=5**	**α=10**	**α=15**
LBGR=90	β=5	40	32	27
	β=10	32	24	21
	β=15	27	21	16
LBGR=80	β=5	40	32	27
	β=10	32	24	21
	β=15	27	21	16
LBGR=70	β=5	40	32	27
	β=10	32	24	21
	β=15	27	21	16

LBGR = Lower Bound of Gray Region (% of Action Level)
β = Beta (%), Probability of mistakenly concluding that μ > action level
α = Alpha (%), Probability of mistakenly concluding that μ < action level
AL = Action Level (Threshold)

Appendix B.4

VSP Summary Reports

Survey Unit 12

APPENDIX B.4

VSP SUMMARY REPORT, SURVEY UNIT 12

Systematic sampling locations for comparing two population means or medians (site and reference) [nonparametric - MARSSIM]

Summary
This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.4-1 summarizes the sampling design developed. Figure B.4-1 shows sampling locations in the field and Table B.4-2 lists predetermined sampling location coordinates.

Table B.4-1 Summary of Sampling Design, Survey Unit 12

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Compare a site mean or median to a reference area mean or median
Type of Sampling Design	Nonparametric
Sample Placement (Location) in the Field	Systematic with a random start location
Working (Null) Hypothesis	The difference between the medians(means) is greater than or equal to the threshold
Formula for calculating number of sampling locations	Wilcoxon Rank Sum Test - MARSSIM version
Calculated total number of samples for each survey and reference area [a]	53
Number of samples on map [b]	53
Number of selected sample areas [c]	1
Specified sampling area [d]	28622.10 ft^2
Size of grid / Area of grid [e]	23.2388 feet / 540.04 ft^2
Grid pattern	Square

[a] Based on the analyte with the highest minimum number of survey unit samples.
[b] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[c] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[d] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[e] Size of grid / Area of grid gives the linear and square dimensions of the grid used to systematically place samples.

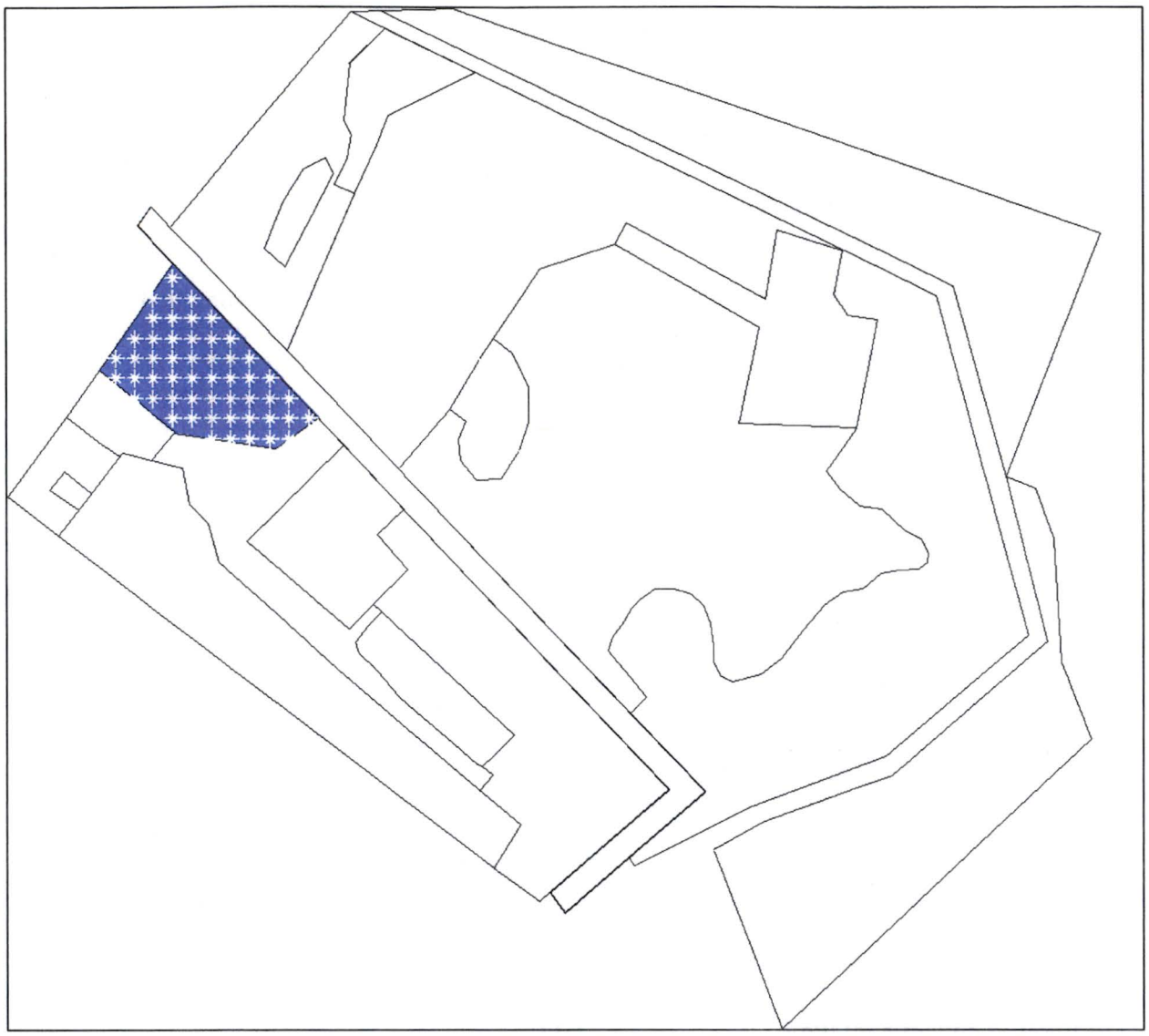


Figure B.4-1 VSP-Generated Sample Locations, Survey Unit 12

Table B.4-2 Survey Unit 12 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference Area / Survey Unit
3022050.0027	674017.7631	Systematic	Survey Unit
3022073.2414	674017.7631	Systematic	Survey Unit
3022096.4802	674017.7631	Systematic	Survey Unit
3022119.7189	674017.7631	Systematic	Survey Unit
3022142.9577	674017.7631	Systematic	Survey Unit
3022003.5252	674041.0019	Systematic	Survey Unit
3022026.7639	674041.0019	Systematic	Survey Unit
3022050.0027	674041.0019	Systematic	Survey Unit
3022073.2414	674041.0019	Systematic	Survey Unit

3022096.4802	674041.0019	Systematic	Survey Unit
3022119.7189	674041.0019	Systematic	Survey Unit
3022142.9577	674041.0019	Systematic	Survey Unit
3022166.1964	674041.0019	Systematic	Survey Unit
3021957.0477	674064.2406	Systematic	Survey Unit
3021980.2864	674064.2406	Systematic	Survey Unit
3022003.5252	674064.2406	Systematic	Survey Unit
3022026.7639	674064.2406	Systematic	Survey Unit
3022050.0027	674064.2406	Systematic	Survey Unit
3022073.2414	674064.2406	Systematic	Survey Unit
3022096.4802	674064.2406	Systematic	Survey Unit
3022119.7189	674064.2406	Systematic	Survey Unit
3022142.9577	674064.2406	Systematic	Survey Unit
3021933.8089	674087.4794	Systematic	Survey Unit
3021957.0477	674087.4794	Systematic	Survey Unit
3021980.2864	674087.4794	Systematic	Survey Unit
3022003.5252	674087.4794	Systematic	Survey Unit
3022026.7639	674087.4794	Systematic	Survey Unit
3022050.0027	674087.4794	Systematic	Survey Unit
3022073.2414	674087.4794	Systematic	Survey Unit
3022096.4802	674087.4794	Systematic	Survey Unit
3022119.7189	674087.4794	Systematic	Survey Unit
3021933.8089	674110.7181	Systematic	Survey Unit
3021957.0477	674110.7181	Systematic	Survey Unit
3021980.2864	674110.7181	Systematic	Survey Unit
3022003.5252	674110.7181	Systematic	Survey Unit
3022026.7639	674110.7181	Systematic	Survey Unit
3022050.0027	674110.7181	Systematic	Survey Unit
3022073.2414	674110.7181	Systematic	Survey Unit
3022096.4802	674110.7181	Systematic	Survey Unit
3021957.0477	674133.9569	Systematic	Survey Unit
3021980.2864	674133.9569	Systematic	Survey Unit
3022003.5252	674133.9569	Systematic	Survey Unit
3022026.7639	674133.9569	Systematic	Survey Unit
3022050.0027	674133.9569	Systematic	Survey Unit
3022073.2414	674133.9569	Systematic	Survey Unit
3021980.2864	674157.1956	Systematic	Survey Unit
3022003.5252	674157.1956	Systematic	Survey Unit
3022026.7639	674157.1956	Systematic	Survey Unit
3022050.0027	674157.1956	Systematic	Survey Unit
3021980.2864	674180.4344	Systematic	Survey Unit
3022003.5252	674180.4344	Systematic	Survey Unit
3022026.7639	674180.4344	Systematic	Survey Unit
3022003.5252	674203.6731	Systematic	Survey Unit

Primary Sampling Objective
The primary purpose of sampling at this site is to compare a site median or mean value with a reference area median or mean value. This is achieved by testing the difference between the site and reference area medians (means). The working hypothesis (or 'null' hypothesis) is that the difference between the site median (mean) and the reference area median (mean) is equal to or exceeds the threshold. The alternative hypothesis is that the difference is less than the threshold. VSP calculates the number of samples required to reject the null hypothesis in favor of the alternative one, given a selected sampling approach and inputs to the associated equation.

Selected Sampling Approach
A nonparametric systematic sampling approach with a random start was used to determine the number of samples and to specify sampling locations. A nonparametric formula was chosen because the conceptual model and historical information (e.g., historical data from this site or a very similar site) indicate that typical parametric assumptions may not be true.

Both parametric and non-parametric equations rely on assumptions about the population. Typically, however, non-parametric equations require fewer assumptions and allow for more uncertainty about the statistical distribution of values at the site. The trade-off is that if the parametric assumptions are valid, the required number of samples is usually less than if a non-parametric equation was used.

Locating the sample points over a systematic grid with a random start ensures spatial coverage of the site. Statistical analyses of systematically collected data are valid if a random start to the grid is used. One disadvantage of systematically collected samples is that spatial variability or patterns may not be discovered if the grid spacing is large relative to the spatial patterns.

Number of Total Samples: Calculation Equation and Inputs
The equation used to calculate the number of samples is based on Wilcoxon Rank Sum test published in MARSSIM (US EPA, et al, 1997). For this site, the null hypothesis is rejected in favor of the alternative one if the difference between the site and reference area median (mean) is sufficiently smaller than the threshold. The number of samples to collect is calculated so that if the inputs to the equation are true, the calculated number of samples will cause the null hypothesis to be rejected.

Equation B.4-1 and Equation B.4-2 were used to calculate the number of samples:

$$n + m = \frac{\left(z_{1-\alpha} + z_{1-\beta}\right)^2}{3(P_r - 0.5)^2}$$

Equation B.4-1

where

$$P_r = \Phi\left(\frac{\Delta}{\sqrt{2s_{total}}}\right)$$

Equation B.4-2

where:

$\Phi(z)$ is the cumulative standard normal distribution on $(-\infty,z)$ (see PNNL-13450 for details),

P_r is the probability that a measurement collected from a random location at the study site is greater than a measurement collected from a random location in a reference area. See PNNL-13450 for details,

n is the number of samples for the site and is equal to m,

m is the number of samples for the reference area and is equal to n,

S_{total} is the estimated standard deviation of the measured values including analytical error,

Δ is the width of the gray region,

α is the acceptable probability of incorrectly concluding the difference between the medians (means) is less than the threshold,

β is the acceptable probability of incorrectly concluding the difference between the medians (means) exceeds the threshold,

$Z_{1-\alpha}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\alpha}$ is $1-\alpha$,

$Z_{1-\beta}$ is the value of the standard normal distribution such that the proportion of the distribution less than $Z_{1-\beta}$ is $1-\beta$.

Note: MARSSIM suggests that the number of samples should be increased by at least 20% to account for missing or unusable data and uncertainty in the calculated value of n. VSP allows a user-supplied percent overage as discussed in MARSSIM (EPA 2000, p. 5-33).

The values of these inputs that result in the calculated number of sampling locations are presented in
Table B.4-3:

Table B.4-3 Input Parameters in VSP Sample Design

Parameter	Value
S	1.8
Δ	1.2
α	5%
β	10%
$Z_{1-\alpha}$	1.64485 [a]
$Z_{1-\beta}$	1.28155 [b]
MARSSIM Overage	20%

[a] This value is automatically calculated by VSP based upon the user defined value of α.
[b] This value is automatically calculated by VSP based upon the user defined value of β.

Figure B.4-2 is a performance goal diagram, described in EPA's QA/G-4 guidance (EPA, 2000). It shows the probability of concluding the sample area is dirty (the probability that the difference between the site median(mean) and the reference area median(mean) exceeds the threshold) on the vertical axis versus a range of possible true differences between the medians(means) on the horizontal axis. This graph contains all of the inputs to the number of samples equation and pictorially represents the calculation.

The red vertical line is shown at the threshold (action limit) on the horizontal axis. The width of the gray shaded area is equal to Δ; the upper horizontal dashed blue line is positioned at 1-α on the vertical axis; the lower horizontal dashed blue line is positioned at β on the vertical axis. The vertical green line is positioned at one standard deviation below the threshold. The shape of the red curve corresponds to the estimates of variability. The calculated number of samples results in the curve that passes through the lower bound of Δ at β and the upper bound of Δ at 1-α. If any of the inputs change, the number of samples that result in the correct curve changes.

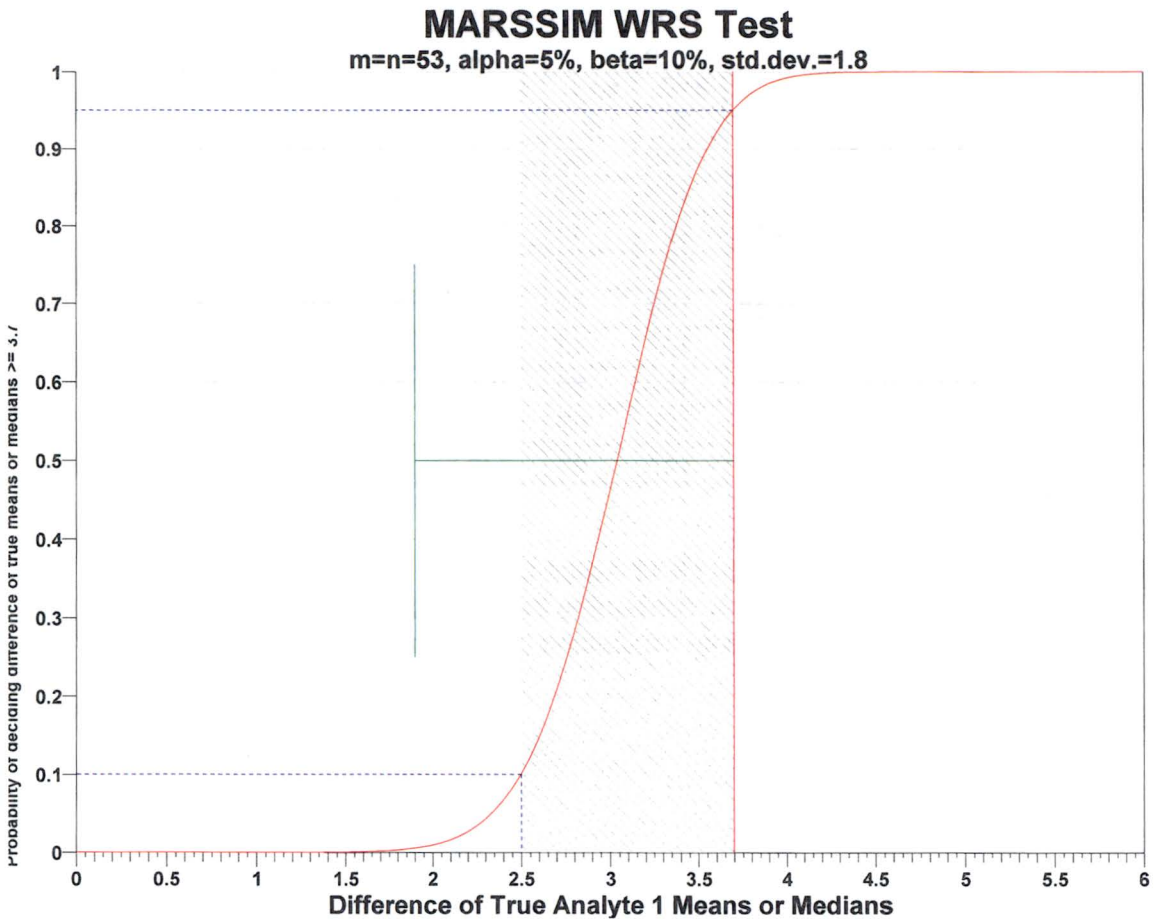


Figure B.4-2 A-Priori Power Curve for WRS Test

Statistical Assumptions

The assumptions associated with the formulas for computing the number of samples are:

1. although the population does not have to be normally distributed, the test statistic is approximately normally distributed,
2. the variances of the site and reference populations are equal,
3. the variance estimate, S^2, is reasonable and representative of the populations being sampled,
4. the population values are not spatially or temporally correlated, and
5. the sampling locations will be selected probabilistically.

The first four assumptions will be assessed in a post data collection analysis. The last assumption is valid because the gridded sample locations were selected based on a random start.

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the lower bound of gray region (% of action level), beta (%), probability of mistakenly concluding that μ > action level and alpha (%), probability of mistakenly concluding that μ < action level. Table B.4-4 shows the results of this analysis.

Table B.4-4 Change in Number of Samples by Varying LBGR, α, and β Parameters

Number of Samples							
AL=3.7		**α=5**		**α=10**		**α=15**	
		s=3.6	**s=1.8**	**s=3.6**	**s=1.8**	**s=3.6**	**s=1.8**
LBGR=90	**β=5**	250	66	198	53	167	45
	β=10	198	53	153	41	125	34
	β=15	167	45	125	34	100	27
LBGR=80	**β=5**	250	66	198	53	167	45
	β=10	198	53	153	41	125	34
	β=15	167	45	125	34	100	27
LBGR=70	**β=5**	250	66	198	53	167	45
	β=10	198	53	153	41	125	34
	β=15	167	45	125	34	100	27

LBGR = Lower Bound of Gray Region (% of Action Level)
β = Beta (%), Probability of mistakenly concluding that μ > action level
α = Alpha (%), Probability of mistakenly concluding that μ < action level
AL = Action Level (Threshold)

Appendix B.5

VSP Summary Reports

Survey Unit 16

APPENDIX B.5

VSP SUMMARY REPORT, SURVEY UNIT 16

Systematic sampling locations for detecting an area of elevated values (hot spot)

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.5-1 summarizes the sampling design developed. Figure B.5-1 shows sampling locations in the field and Table B.5-2 lists sampling location coordinates.

Table B.5-1 Summary of Sampling Design, Survey Unit 16

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Detect the presence of a hot spot that has a specified size and shape
Type of Sampling Design	Hot spot
Sample Placement (Location) in the Field	Systematic (Hot Spot) with a random start location
Formula for calculating number of sampling locations	Algorithm developed by Singer and Wickman (1969)
Calculated total number of samples	179
Type of samples	Point Samples
Number of samples on map [a]	178
Number of selected sample areas [b]	1
Specified sampling area [c]	44259.91 ft^2
Grid pattern	Square
Size of grid / Area of grid [d]	15.7312 feet / 247.47 ft^2

[a] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[b] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[c] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[d] Size of grid / Area of grid cell gives the linear and square dimensions of the grid used to systematically place samples.

Figure B.5-1 VSP-Generated Sample Locations, Survey Unit 16

Table B.5-2 Survey Unit 16 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3022390.72	673544.05	Systematic	Survey Unit
3022374.97	673559.8	Systematic	Survey Unit
3022390.72	673559.8	Systematic	Survey Unit
3022406.47	673559.8	Systematic	Survey Unit
3022343.47	673575.54	Systematic	Survey Unit
3022359.22	673575.54	Systematic	Survey Unit
3022374.97	673575.54	Systematic	Survey Unit
3022390.72	673575.54	Systematic	Survey Unit
3022406.47	673575.54	Systematic	Survey Unit
3022327.72	673591.29	Systematic	Survey Unit
3022343.47	673591.29	Systematic	Survey Unit
3022359.22	673591.29	Systematic	Survey Unit
3022374.97	673591.29	Systematic	Survey Unit
3022311.97	673607.04	Systematic	Survey Unit

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3022327.72	673607.04	Systematic	Survey Unit
3022343.47	673607.04	Systematic	Survey Unit
3022359.22	673607.04	Systematic	Survey Unit
3022280.48	673622.79	Systematic	Survey Unit
3022296.23	673622.79	Systematic	Survey Unit
3022311.97	673622.79	Systematic	Survey Unit
3022327.72	673622.79	Systematic	Survey Unit
3022343.47	673622.79	Systematic	Survey Unit
3022264.73	673638.54	Systematic	Survey Unit
3022280.48	673638.54	Systematic	Survey Unit
3022296.23	673638.54	Systematic	Survey Unit
3022311.97	673638.54	Systematic	Survey Unit
3022327.72	673638.54	Systematic	Survey Unit
3022248.98	673654.29	Systematic	Survey Unit
3022264.73	673654.29	Systematic	Survey Unit
3022280.48	673654.29	Systematic	Survey Unit
3022296.23	673654.29	Systematic	Survey Unit
3022311.97	673654.29	Systematic	Survey Unit
3022217.48	673670.04	Systematic	Survey Unit
3022233.23	673670.04	Systematic	Survey Unit
3022248.98	673670.04	Systematic	Survey Unit
3022264.73	673670.04	Systematic	Survey Unit
3022280.48	673670.04	Systematic	Survey Unit
3022201.73	673685.78	Systematic	Survey Unit
3022217.48	673685.78	Systematic	Survey Unit
3022233.23	673685.78	Systematic	Survey Unit
3022248.98	673685.78	Systematic	Survey Unit
3022264.73	673685.78	Systematic	Survey Unit
3022170.24	673701.53	Systematic	Survey Unit
3022185.99	673701.53	Systematic	Survey Unit
3022201.73	673701.53	Systematic	Survey Unit
3022217.48	673701.53	Systematic	Survey Unit
3022233.23	673701.53	Systematic	Survey Unit
3022248.98	673701.53	Systematic	Survey Unit
3022154.49	673717.28	Systematic	Survey Unit
3022170.24	673717.28	Systematic	Survey Unit
3022185.99	673717.28	Systematic	Survey Unit
3022201.73	673717.28	Systematic	Survey Unit
3022217.48	673717.28	Systematic	Survey Unit
3022233.23	673717.28	Systematic	Survey Unit
3022138.74	673733.03	Systematic	Survey Unit
3022154.49	673733.03	Systematic	Survey Unit
3022170.24	673733.03	Systematic	Survey Unit
3022185.99	673733.03	Systematic	Survey Unit
3022201.73	673733.03	Systematic	Survey Unit
3022217.48	673733.03	Systematic	Survey Unit

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3022107.24	673748.78	Systematic	Survey Unit
3022122.99	673748.78	Systematic	Survey Unit
3022138.74	673748.78	Systematic	Survey Unit
3022154.49	673748.78	Systematic	Survey Unit
3022170.24	673748.78	Systematic	Survey Unit
3022185.99	673748.78	Systematic	Survey Unit
3022091.49	673764.53	Systematic	Survey Unit
3022107.24	673764.53	Systematic	Survey Unit
3022122.99	673764.53	Systematic	Survey Unit
3022138.74	673764.53	Systematic	Survey Unit
3022154.49	673764.53	Systematic	Survey Unit
3022170.24	673764.53	Systematic	Survey Unit
3022075.75	673780.28	Systematic	Survey Unit
3022091.49	673780.28	Systematic	Survey Unit
3022107.24	673780.28	Systematic	Survey Unit
3022122.99	673780.28	Systematic	Survey Unit
3022138.74	673780.28	Systematic	Survey Unit
3022154.49	673780.28	Systematic	Survey Unit
3022044.25	673796.02	Systematic	Survey Unit
3022060	673796.02	Systematic	Survey Unit
3022075.75	673796.02	Systematic	Survey Unit
3022091.49	673796.02	Systematic	Survey Unit
3022107.24	673796.02	Systematic	Survey Unit
3022122.99	673796.02	Systematic	Survey Unit
3022138.74	673796.02	Systematic	Survey Unit
3022028.5	673811.77	Systematic	Survey Unit
3022044.25	673811.77	Systematic	Survey Unit
3022060	673811.77	Systematic	Survey Unit
3022075.75	673811.77	Systematic	Survey Unit
3022091.49	673811.77	Systematic	Survey Unit
3022107.24	673811.77	Systematic	Survey Unit
3022122.99	673811.77	Systematic	Survey Unit
3022012.75	673827.52	Systematic	Survey Unit
3022028.5	673827.52	Systematic	Survey Unit
3022044.25	673827.52	Systematic	Survey Unit
3022060	673827.52	Systematic	Survey Unit
3022075.75	673827.52	Systematic	Survey Unit
3022091.49	673827.52	Systematic	Survey Unit
3022107.24	673827.52	Systematic	Survey Unit
3021981.25	673843.27	Systematic	Survey Unit
3021997	673843.27	Systematic	Survey Unit
3022012.75	673843.27	Systematic	Survey Unit
3022028.5	673843.27	Systematic	Survey Unit
3022044.25	673843.27	Systematic	Survey Unit
3022060	673843.27	Systematic	Survey Unit
3022075.75	673843.27	Systematic	Survey Unit

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3022091.49	673843.27	Systematic	Survey Unit
3021965.5	673859.02	Systematic	Survey Unit
3021981.25	673859.02	Systematic	Survey Unit
3021997	673859.02	Systematic	Survey Unit
3022012.75	673859.02	Systematic	Survey Unit
3022028.5	673859.02	Systematic	Survey Unit
3022044.25	673859.02	Systematic	Survey Unit
3022060	673859.02	Systematic	Survey Unit
3022075.75	673859.02	Systematic	Survey Unit
3021949.76	673874.77	Systematic	Survey Unit
3021965.5	673874.77	Systematic	Survey Unit
3021981.25	673874.77	Systematic	Survey Unit
3021997	673874.77	Systematic	Survey Unit
3022012.75	673874.77	Systematic	Survey Unit
3022028.5	673874.77	Systematic	Survey Unit
3022044.25	673874.77	Systematic	Survey Unit
3021918.26	673890.52	Systematic	Survey Unit
3021934.01	673890.52	Systematic	Survey Unit
3021949.76	673890.52	Systematic	Survey Unit
3021965.5	673890.52	Systematic	Survey Unit
3021981.25	673890.52	Systematic	Survey Unit
3021997	673890.52	Systematic	Survey Unit
3022012.75	673890.52	Systematic	Survey Unit
3022028.5	673890.52	Systematic	Survey Unit
3022044.25	673890.52	Systematic	Survey Unit
3021902.51	673906.26	Systematic	Survey Unit
3021918.26	673906.26	Systematic	Survey Unit
3021934.01	673906.26	Systematic	Survey Unit
3021949.76	673906.26	Systematic	Survey Unit
3021965.5	673906.26	Systematic	Survey Unit
3021981.25	673906.26	Systematic	Survey Unit
3021997	673906.26	Systematic	Survey Unit
3022012.75	673906.26	Systematic	Survey Unit
3022028.5	673906.26	Systematic	Survey Unit
3022044.25	673906.26	Systematic	Survey Unit
3021886.76	673922.01	Systematic	Survey Unit
3021902.51	673922.01	Systematic	Survey Unit
3021918.26	673922.01	Systematic	Survey Unit
3021934.01	673922.01	Systematic	Survey Unit
3021949.76	673922.01	Systematic	Survey Unit
3021965.5	673922.01	Systematic	Survey Unit
3021981.25	673922.01	Systematic	Survey Unit
3021997	673922.01	Systematic	Survey Unit
3022012.75	673922.01	Systematic	Survey Unit
3022028.5	673922.01	Systematic	Survey Unit
3021902.51	673937.76	Systematic	Survey Unit

X Coordinate	Y Coordinate	Type	Reference/ Survey Unit
3021918.26	673937.76	Systematic	Survey Unit
3021934.01	673937.76	Systematic	Survey Unit
3021949.76	673937.76	Systematic	Survey Unit
3021965.5	673937.76	Systematic	Survey Unit
3021981.25	673937.76	Systematic	Survey Unit
3021997	673937.76	Systematic	Survey Unit
3022012.75	673937.76	Systematic	Survey Unit
3021918.26	673953.51	Systematic	Survey Unit
3021934.01	673953.51	Systematic	Survey Unit
3021949.76	673953.51	Systematic	Survey Unit
3021965.5	673953.51	Systematic	Survey Unit
3021981.25	673953.51	Systematic	Survey Unit
3021997	673953.51	Systematic	Survey Unit
3022012.75	673953.51	Systematic	Survey Unit
3021918.26	673969.26	Systematic	Survey Unit
3021934.01	673969.26	Systematic	Survey Unit
3021949.76	673969.26	Systematic	Survey Unit
3021965.5	673969.26	Systematic	Survey Unit
3021981.25	673969.26	Systematic	Survey Unit
3021997	673969.26	Systematic	Survey Unit
3022012.75	673969.26	Systematic	Survey Unit
3021934.01	673985.01	Systematic	Survey Unit
3021949.76	673985.01	Systematic	Survey Unit
3021965.5	673985.01	Systematic	Survey Unit
3021981.25	673985.01	Systematic	Survey Unit
3021997	673985.01	Systematic	Survey Unit

Primary Sampling Objective
The primary purpose of sampling at this site is to detect "hot spots" (local areas of elevated concentration) of a given size and shape with a specified probability, 1-β.

Selected Sampling Approach
This sampling approach requires systematic grid sampling with a random start. If a systematic grid is not used, the probability of detecting a hot spot of a given size and shape will be different than desired or calculated.

Number of Total Samples: Calculation Equation and Inputs
The algorithm used to calculate the grid size (and hence, the number of samples) is based on work by Singer and Wickman for locating geologic deposits [see Singer and Wickman (1969) and Hassig et al. (2004) for details]. Inputs to the algorithm include the size, shape, and orientation of a hot spot of interest, an acceptable probability of finding a hot spot, the desired type of sampling grid, and the sampling budget. For this design, the smallest hot spot that could be detected was calculated based on the given grid size and other parameters.

The values of these inputs that result in the smallest hot spot that could be detected are presented in Table B.5-3:

Table B.5-3 Input Parameters in VSP Sample Design

Parameter	Description	Value
Inputs		
1-β	Probability of detection	90.96%
Grid Type	Grid pattern (Square, Triangular or Rectangular)	Square
Grid Size	Spacing between samples	4.79988 meters
Grid Area	Area represented by one grid	247.988 m^2
Sample Type	Point samples or square cells	Points
Hot Spot Shape	Hot spot height to width ratio	1
Angle	Angle of orientation between hot spot and grid	Random
Sampling Area	Total area to sample	44259.91 ft^2
Outputs		
Hot Spot Size	Length of hot spot semi-major axis	2.70857 meters
Hot Spot Area [a]	Area of hot spot (Length^2 * Shape * π)	23.0478 m^2

[a] Length of semi-major axis is used by Singer-Wickman algorithm. Hot spot area is provided for informational purposes.

Figure B.5-2 shows the relationship between the number of samples and the probability of finding the hot spot. The dashed blue line shows the actual number of samples for this design (which may differ from the optimum number of samples because of edge effects).

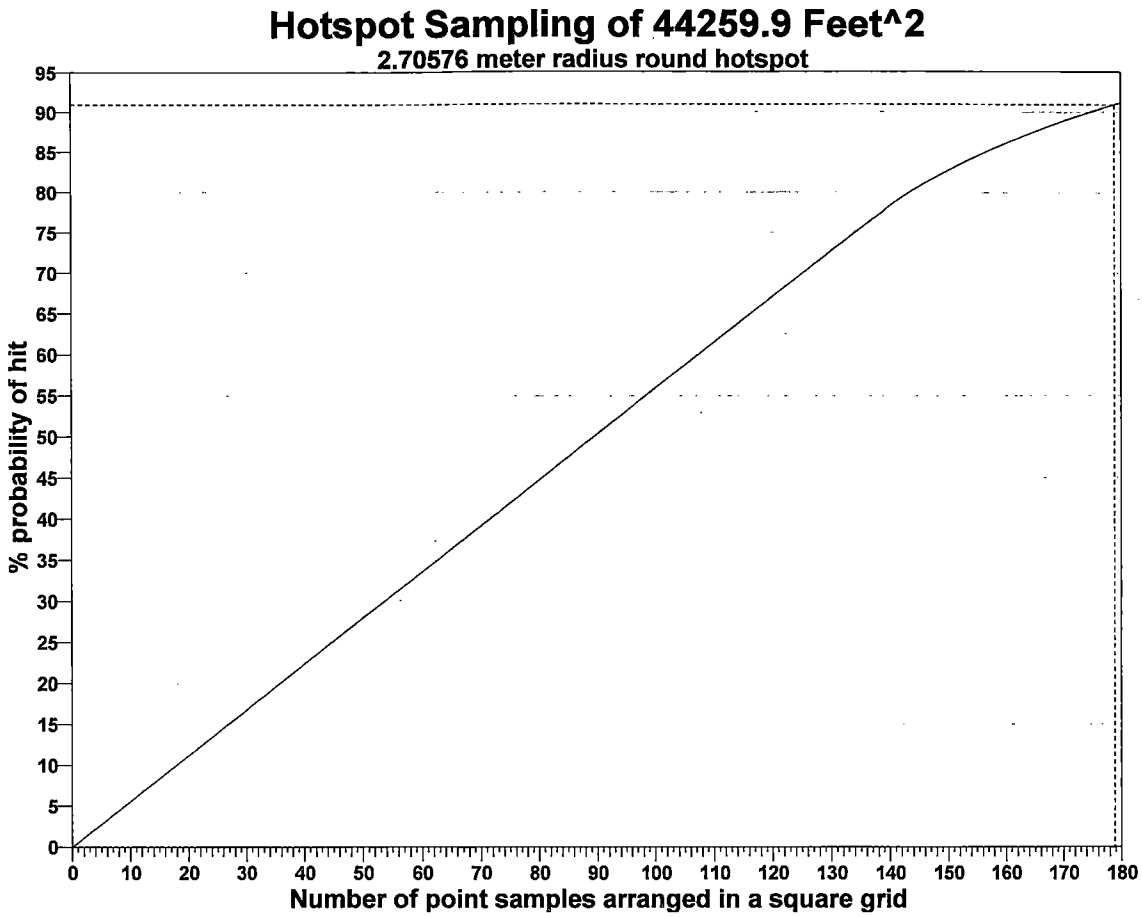


Figure B.5-2 Probability of Identifying a Hot Spot vs. Number of Samples

Assumptions that Underlie the VSP Locating a Hot Spot Design Method

1. In the decision area there is at least one hotspot of the designated size, which is circular or elliptical in shape.
2. The level of contamination that defines a hotspot is well defined.
3. The location of the hotspot is unknown, and if a hotspot is present, all locations within the sampling area are equally likely to contain the hotspot.
4. With a randomly determined starting location, samples are taken on a square, rectangular or triangular (equilateral) grid pattern that covers the decision area.
5. Each sample is collected, handled, measured or inspected using approved methods that yield sufficiently precise measurements.
6. A very small proportion of the surface of the decision area will be sampled. The area sampled by a single sample is much smaller than the hotspot of interest.
7. The sample methodology and sample analysis process is the same for all sample locations.
8. There are no classification errors. If a hotspot is sampled, then contamination is detected (i.e., no false negatives). If an uncontaminated area is sampled, it is not mistakenly identified as a hotspot (i.e., no false positives).

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the probability of hit (%), hot spot shape (height to width ratio), and hot spot size (length of semi-major axis) and examining the resulting changes in the number of samples. Table B.5-4 shows the results of this analysis.

Table B.5-4 Change in Number of Samples by Varying Hot Spot Size and Shape

Number of Samples				
		Size=1.35429	**Size=2.70859**	**Size=4.06288**
Ang=0	**Shp=0.8**	933	234	104
	Shp=0.9	802	201	90
	Shp=1	714	179	80
Ang=22.5	**Shp=0.8**	899	225	100
	Shp=0.9	795	199	89
	Shp=1	714	179	80
Ang=45	**Shp=0.8**	867	217	97
	Shp=0.9	788	197	88
	Shp=1	714	179	80

Shp = Hot Spot Shape (Height to Width Ratio)
Size = Hot Spot Size (Length of Semi-major Axis)
Ang = Angle of Orientation (between Hot Spot and Grid)

Appendix B.6

VSP Summary Reports

Survey Unit 17

APPENDIX B.6

VSP SUMMARY REPORT, SURVEY UNIT 17

Systematic sampling locations for detecting an area of elevated values (hot spot)

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.6-1 summarizes the sampling design developed. Figure B.6-1 shows sampling locations in the field and Table B.6-2 lists sampling location coordinates.

Table B.6-1 Summary of Sampling Design, Survey Unit 17

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Detect the presence of a hot spot that has a specified size and shape
Type of Sampling Design	Hot spot
Sample Placement (Location) in the Field	Systematic (Hot Spot) with a random start location
Formula for calculating minimum size of hot spot	Algorithm developed by Singer and Wickman (1969)
Calculated total number of samples	57
Type of samples	Point Samples
Number of samples on map [a]	57
Number of selected sample areas [b]	1
Specified sampling area [c]	2843 m^2
Grid pattern	Square
Size of grid / Area of grid [d]	7.07 meters / 50.0 m^2

[a] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[b] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[c] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[d] Size of grid / Area of grid cell gives the linear and square dimensions of the grid used to systematically place samples.

Figure B.6-1 VSP-Generated Sample Locations, Survey Unit 17

Table B.6-2 Survey Unit 17 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference / Survey Unit
3022372.0133	673610.2845	Hotspot	Survey Unit
3022348.8178	673633.4800	Hotspot	Survey Unit
3022372.0133	673633.4800	Hotspot	Survey Unit
3022325.6224	673656.6754	Hotspot	Survey Unit
3022302.4269	673679.8709	Hotspot	Survey Unit
3022256.0360	673703.0664	Hotspot	Survey Unit
3022279.2314	673703.0664	Hotspot	Survey Unit
3022232.8405	673726.2618	Hotspot	Survey Unit
3022256.0360	673726.2618	Hotspot	Survey Unit
3022209.6450	673749.4573	Hotspot	Survey Unit
3022232.8405	673749.4573	Hotspot	Survey Unit
3022186.4496	673772.6528	Hotspot	Survey Unit
3022209.6450	673772.6528	Hotspot	Survey Unit
3022163.2541	673795.8482	Hotspot	Survey Unit
3022186.4496	673795.8482	Hotspot	Survey Unit
3022209.6450	673795.8482	Hotspot	Survey Unit
3022232.8405	673795.8482	Hotspot	Survey Unit
3022140.0586	673819.0437	Hotspot	Survey Unit
3022163.2541	673819.0437	Hotspot	Survey Unit
3022186.4496	673819.0437	Hotspot	Survey Unit

3022116.8632	673842.2392	Hotspot	Survey Unit
3022140.0586	673842.2392	Hotspot	Survey Unit
3022070.4722	673865.4346	Hotspot	Survey Unit
3022093.6677	673865.4346	Hotspot	Survey Unit
3022116.8632	673865.4346	Hotspot	Survey Unit
3022070.4722	673888.6301	Hotspot	Survey Unit
3022093.6677	673888.6301	Hotspot	Survey Unit
3022070.4722	673911.8256	Hotspot	Survey Unit
3022093.6677	673911.8256	Hotspot	Survey Unit
3022047.2768	673935.0210	Hotspot	Survey Unit
3022070.4722	673935.0210	Hotspot	Survey Unit
3022093.6677	673935.0210	Hotspot	Survey Unit
3022116.8632	673935.0210	Hotspot	Survey Unit
3022024.0813	673958.2165	Hotspot	Survey Unit
3022047.2768	673958.2165	Hotspot	Survey Unit
3022070.4722	673958.2165	Hotspot	Survey Unit
3022093.6677	673958.2165	Hotspot	Survey Unit
3022116.8632	673958.2165	Hotspot	Survey Unit
3022140.0586	673958.2165	Hotspot	Survey Unit
3022024.0813	673981.4120	Hotspot	Survey Unit
3022047.2768	673981.4120	Hotspot	Survey Unit
3022070.4722	673981.4120	Hotspot	Survey Unit
3022093.6677	673981.4120	Hotspot	Survey Unit
3022116.8632	673981.4120	Hotspot	Survey Unit
3022140.0586	673981.4120	Hotspot	Survey Unit
3022163.2541	673981.4120	Hotspot	Survey Unit
3022000.8858	674004.6075	Hotspot	Survey Unit
3022024.0813	674004.6075	Hotspot	Survey Unit
3022047.2768	674004.6075	Hotspot	Survey Unit
3022070.4722	674004.6075	Hotspot	Survey Unit
3022093.6677	674004.6075	Hotspot	Survey Unit
3022116.8632	674004.6075	Hotspot	Survey Unit
3022140.0586	674004.6075	Hotspot	Survey Unit
3022163.2541	674004.6075	Hotspot	Survey Unit
3022186.4496	674004.6075	Hotspot	Survey Unit
3022163.2541	674027.8029	Hotspot	Survey Unit
3022186.4496	674027.8029	Hotspot	Survey Unit

Primary Sampling Objective

The primary purpose of sampling at this site is to detect "hot spots" (local areas of elevated concentration) of a given size and shape with a specified probability, 1-β.

Selected Sampling Approach

This sampling approach requires systematic grid sampling with a random start. If a systematic grid is not used, the probability of detecting a hot spot of a given size and shape will be different than desired or calculated.

Number of Total Samples: Calculation Equation and Inputs

The algorithm used to calculate the grid size (and hence, the number of samples) is based on work by Singer and Wickman for locating geologic deposits [see Singer and Wickman (1969) and Hassig et al. (2004) for details]. Inputs to the algorithm include the size, shape, and orientation of a hot spot of interest, an acceptable probability of finding a hot spot, the desired type of sampling grid, and the sampling budget. For this design, the smallest hot spot that could be detected was calculated based on the given grid size and other parameters.

The values of these inputs that result in the smallest hot spot that could be detected are presented in Table B.6-3:

Table B.6-3 Input Parameters in VSP Sample Design

Parameter	Description	Value
Inputs		
1-β	Probability of detection	90.96%
Grid Type	Grid pattern (Square, Triangular or Rectangular)	Square
Grid Size	Spacing between samples	7.07 meters
Grid Area	Area represented by one grid	50.0 m^2
Sample Type	Point samples or square cells	Points
Hot Spot Shape	Hot spot height to width ratio	1
Angle	Angle of orientation between hot spot and grid	Random
Sampling Area	Total area to sample	30605.35 ft^2
Outputs		
Hot Spot Size	Length of hot spot semi-major axis	13.0892 feet
Hot Spot Area [a]	Area of hot spot (Length^2 * Shape * π)	50.0039 m^2

[a] Length of semi-major axis is used by Singer-Wickman algorithm. Hot spot area is provided for informational purposes.

Figure B.6-2 shows the relationship between the number of samples and the probability of finding the hot spot. The dashed blue line shows the actual number of samples for this design (which may differ from the optimum number of samples because of edge effects).

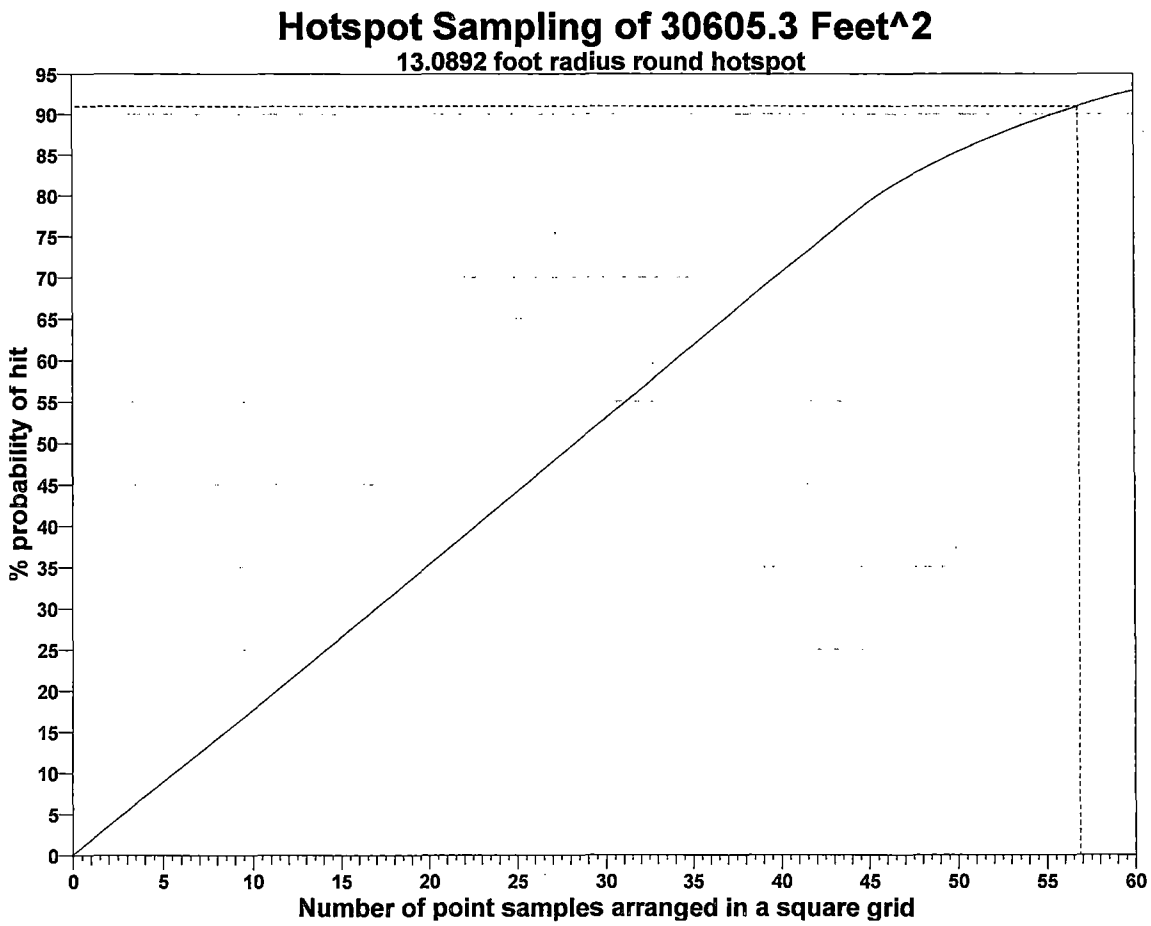


Figure B.6-2 Probability of Identifying a Hot Spot vs. Number of Samples

Assumptions that Underlie the VSP Locating a Hot Spot Design Method

1. In the decision area there is at least one hotspot of the designated size, which is circular or elliptical in shape.
2. The level of contamination that defines a hotspot is well defined.
3. The location of the hotspot is unknown, and if a hotspot is present, all locations within the sampling area are equally likely to contain the hotspot.
4. With a randomly determined starting location, samples are taken on a square, rectangular or triangular (equilateral) grid pattern that covers the decision area.
5. Each sample is collected, handled, measured or inspected using approved methods that yield sufficiently precise measurements.
6. A very small proportion of the surface of the decision area will be sampled. The area sampled by a single sample is much smaller than the hotspot of interest.
7. The sample methodology and sample analysis process is the same for all sample locations.
8. There are no classification errors. If a hotspot is sampled, then contamination is detected (i.e., no false negatives). If an uncontaminated area is sampled, it is not mistakenly identified as a hotspot (i.e., no false positives).

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the probability of hit (%), hot spot shape (height to width ratio), and hot spot size (length of semi-major axis) and examining the resulting changes in the number of samples. Table B.6-4 shows the results of this analysis.

Table B.6-4 Change in Number of Samples by Varying Hot Spot Size and Shape

Number of Samples				
		Size=6.5446	**Size=13.0892**	**Size=19.6338**
Ang=0	**Shp=0.8**	298	75	34
	Shp=0.9	256	64	29
	Shp=1	228	57	26
Ang=22.5	**Shp=0.8**	287	72	32
	Shp=0.9	254	64	29
	Shp=1	228	57	26
Ang=45	**Shp=0.8**	277	70	31
	Shp=0.9	251	63	28
	Shp=1	228	57	26

Shp = Hot Spot Shape (Height to Width Ratio)
Size = Hot Spot Size (Length of Semi-major Axis)
Ang = Angle of Orientation (between Hot Spot and Grid)

Appendix B.7

VSP Summary Reports

Survey Unit 18

Figure B.7-1 VSP-Generated Sample Locations, Survey Unit 18

APPENDIX B.7

VSP SUMMARY REPORT, SURVEY UNIT 18

Systematic sampling locations for detecting an area of elevated values (hot spot)

This report summarizes the sampling design used, associated statistical assumptions, as well as general guidelines for conducting post-sampling data analysis. Sampling plan components presented here include how many sampling locations to choose and where within the sampling area to collect those samples. The type of medium to sample (i.e., soil, groundwater, etc.) and how to analyze the samples (in-situ, fixed laboratory, etc.) are addressed in other sections of the sampling plan.

Table B.7-1 summarizes the sampling design developed. Figure B.7-1 shows sampling locations in the field and Table B.7-2 lists sampling location coordinates.

Table B.7-1 Summary of Sampling Design, Survey Unit 18

SUMMARY OF SAMPLING DESIGN	
Primary Objective of Design	Detect the presence of a hot spot that has a specified size and shape
Type of Sampling Design	Hot spot
Sample Placement (Location) in the Field	Systematic (Hot Spot) with a random start location
Formula for calculating minimum size of hot spot	Algorithm developed by Singer and Wickman (1969)
Calculated total number of samples	41
Type of samples	Point Samples
Number of samples on map [a]	41
Number of selected sample areas [b]	1
Specified sampling area [c]	1997 m^2
Grid pattern	Square
Size of grid / Area of grid [d]	7.07 meters / 50.0 m^2

[a] This number may differ from the calculated number because of 1) grid edge effects, 2) adding judgment samples, or 3) selecting or unselecting sample areas.
[b] The number of selected sample areas is the number of colored areas on the map of the site. These sample areas contain the locations where samples are collected.
[c] The sampling area is the total surface area of the selected colored sample areas on the map of the site.
[d] Size of grid / Area of grid cell gives the linear and square dimensions of the grid used to systematically place samples.

Table B.7-2 Survey Unit 18 Corehole Locations, TN State Plane Coordinates

X Coordinate	Y Coordinate	Type	Reference Area/ Survey Unit
3022212.2228	673805.0539	Hotspot	Survey Unit
3022189.0273	673828.2494	Hotspot	Survey Unit
3022212.2228	673828.2494	Hotspot	Survey Unit
3022235.4182	673828.2494	Hotspot	Survey Unit
3022165.8318	673851.4449	Hotspot	Survey Unit
3022189.0273	673851.4449	Hotspot	Survey Unit
3022212.2228	673851.4449	Hotspot	Survey Unit
3022235.4182	673851.4449	Hotspot	Survey Unit
3022258.6137	673851.4449	Hotspot	Survey Unit
3022142.6364	673874.6403	Hotspot	Survey Unit
3022165.8318	673874.6403	Hotspot	Survey Unit
3022189.0273	673874.6403	Hotspot	Survey Unit
3022212.2228	673874.6403	Hotspot	Survey Unit
3022235.4182	673874.6403	Hotspot	Survey Unit
3022258.6137	673874.6403	Hotspot	Survey Unit
3022096.2454	673897.8358	Hotspot	Survey Unit
3022119.4409	673897.8358	Hotspot	Survey Unit
3022142.6364	673897.8358	Hotspot	Survey Unit
3022165.8318	673897.8358	Hotspot	Survey Unit
3022189.0273	673897.8358	Hotspot	Survey Unit
3022212.2228	673897.8358	Hotspot	Survey Unit
3022235.4182	673897.8358	Hotspot	Survey Unit
3022119.4409	673921.0313	Hotspot	Survey Unit
3022142.6364	673921.0313	Hotspot	Survey Unit
3022165.8318	673921.0313	Hotspot	Survey Unit
3022189.0273	673921.0313	Hotspot	Survey Unit
3022212.2228	673921.0313	Hotspot	Survey Unit
3022235.4182	673921.0313	Hotspot	Survey Unit
3022258.6137	673921.0313	Hotspot	Survey Unit
3022142.6364	673944.2267	Hotspot	Survey Unit
3022165.8318	673944.2267	Hotspot	Survey Unit
3022189.0273	673944.2267	Hotspot	Survey Unit
3022212.2228	673944.2267	Hotspot	Survey Unit
3022235.4182	673944.2267	Hotspot	Survey Unit
3022258.6137	673944.2267	Hotspot	Survey Unit
3022165.8318	673967.4222	Hotspot	Survey Unit
3022189.0273	673967.4222	Hotspot	Survey Unit
3022212.2228	673967.4222	Hotspot	Survey Unit
3022235.4182	673967.4222	Hotspot	Survey Unit
3022189.0273	673990.6177	Hotspot	Survey Unit
3022212.2228	673990.6177	Hotspot	Survey Unit

Primary Sampling Objective
The primary purpose of sampling at this site is to detect "hot spots" (local areas of elevated concentration) of a given size and shape with a specified probability, 1-β.

Selected Sampling Approach
This sampling approach requires systematic grid sampling with a random start. If a systematic grid is not used, the probability of detecting a hot spot of a given size and shape will be different than desired or calculated.

Number of Total Samples: Calculation Equation and Inputs
The algorithm used to calculate the grid size (and hence, the number of samples) is based on work by Singer and Wickman for locating geologic deposits [see Singer and Wickman (1969) and Hassig et al. (2004) for details]. Inputs to the algorithm include the size, shape, and orientation of a hot spot of interest, an acceptable probability of finding a hot spot, the desired type of sampling grid, and the sampling budget. For this design, the smallest hot spot that could be detected was calculated based on the given grid size and other parameters.

The values of these inputs that result in the smallest hot spot that could be detected are presented in Table B.7-3:

Table B.7-3 Input Parameters in VSP Sample Design

Parameter	Description	Value
Inputs		
1-β	Probability of detection	90.96%
Grid Type	Grid pattern (Square, Triangular or Rectangular)	Square
Grid Size	Spacing between samples	7.07 meters
Grid Area	Area represented by one grid	50 m^2
Sample Type	Point samples or square cells	Points
Hot Spot Shape	Hot spot height to width ratio	1
Angle	Angle of orientation between hot spot and grid	Random
Sampling Area	Total area to sample	1997 m^2
Outputs		
Hot Spot Size	Length of hot spot semi-major axis	13.0892 feet
Hot Spot Area [a]	Area of hot spot (Length^2 * Shape * π)	50.0039 m^2

[a] Length of semi-major axis is used by Singer-Wickman algorithm. Hot spot area is provided for informational purposes.

Figure B.7-2 shows the relationship between the number of samples and the probability of finding the hot spot. The dashed blue line shows the actual number of samples for this design (which may differ from the optimum number of samples because of edge effects).

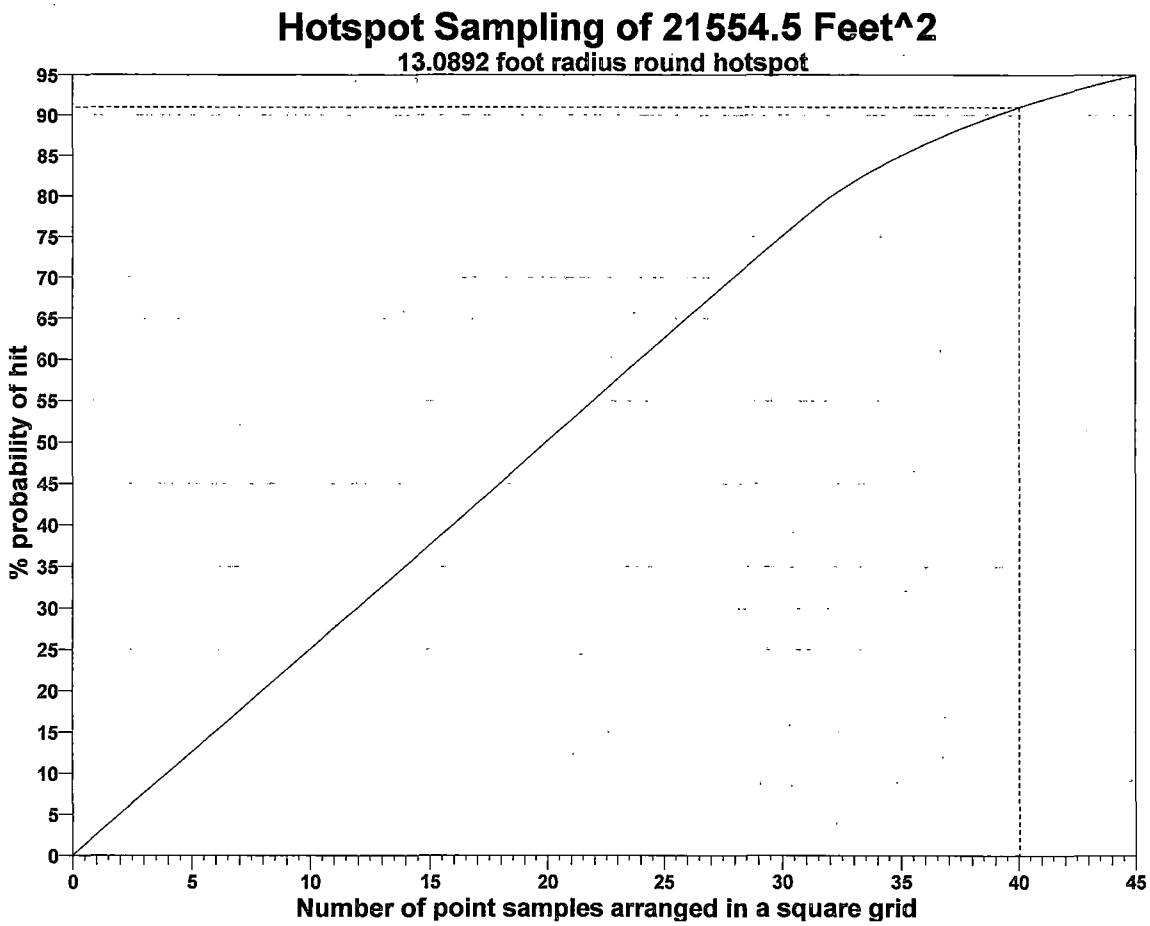


Figure B.7-2 Probability of Identifying a Hot Spot vs. Number of Samples

Assumptions that Underlie the VSP Locating a Hot Spot Design Method

1. In the decision area there is at least one hotspot of the designated size, which is circular or elliptical in shape.
2. The level of contamination that defines a hotspot is well defined.
3. The location of the hotspot is unknown, and if a hotspot is present, all locations within the sampling area are equally likely to contain the hotspot.
4. With a randomly determined starting location, samples are taken on a square, rectangular or triangular (equilateral) grid pattern that covers the decision area.
5. Each sample is collected, handled, measured or inspected using approved methods that yield sufficiently precise measurements.
6. A very small proportion of the surface of the decision area will be sampled. The area sampled by a single sample is much smaller than the hotspot of interest.
7. The sample methodology and sample analysis process is the same for all sample locations.
8. There are no classification errors. If a hotspot is sampled, then contamination is detected (i.e., no false negatives). If an uncontaminated area is sampled, it is not mistakenly identified as a hotspot (i.e., no false positives).

Sensitivity Analysis

The sensitivity of the calculation of number of samples was explored by varying the probability of hit (%), hot spot shape (height to width ratio), and hot spot size (length of semi-major axis) and examining the resulting changes in the number of samples. Table B.7-4 shows the results of this analysis.

Table B.7-4 Change in Number of Samples by Varying Hot Spot Size and Shape

		Number of Samples		
		Size=6.5446	**Size=13.0892**	**Size=19.6338**
Ang=0	**Shp=0.8**	210	53	24
	Shp=0.9	180	45	20
	Shp=1	161	41	18
Ang=22.5	**Shp=0.8**	202	51	23
	Shp=0.9	179	45	20
	Shp=1	161	41	18
Ang=45	**Shp=0.8**	195	49	22
	Shp=0.9	177	45	20
	Shp=1	161	41	18

Shp = Hot Spot Shape (Height to Width Ratio)
Size = Hot Spot Size (Length of Semi-major Axis)
Ang = Angle of Orientation (between Hot Spot and Grid)

Appendix C

Field Sample Tracking Program

APPENDIX C

FIELD SAMPLE TRACKING PROGRAM

Amec Foster Wheeler and NFS chose to implement Amec Foster Wheeler's computer-based Field Sample Tracking Program for the *Subsurface Soil Characterization and FSS Project* at NFS' North Site due to the complexity of the required sampling regime and due to the large number of samples (more than 4000) that were scheduled to be collected over the duration of the project. Aside from the large number of soil cores and vertical segments of each core (a sample), each sample had the potential to have several subsamples isolated for various purposes, including a number of non-radiological parameters. Adding to the complexity of the prescribed sampling regime was the need to pre-process the primary soil subsample by drying and grinding to assure that appropriate sample homogeneity was achieved prior to splitting to one of three designated analytical laboratories (Figure C-1).

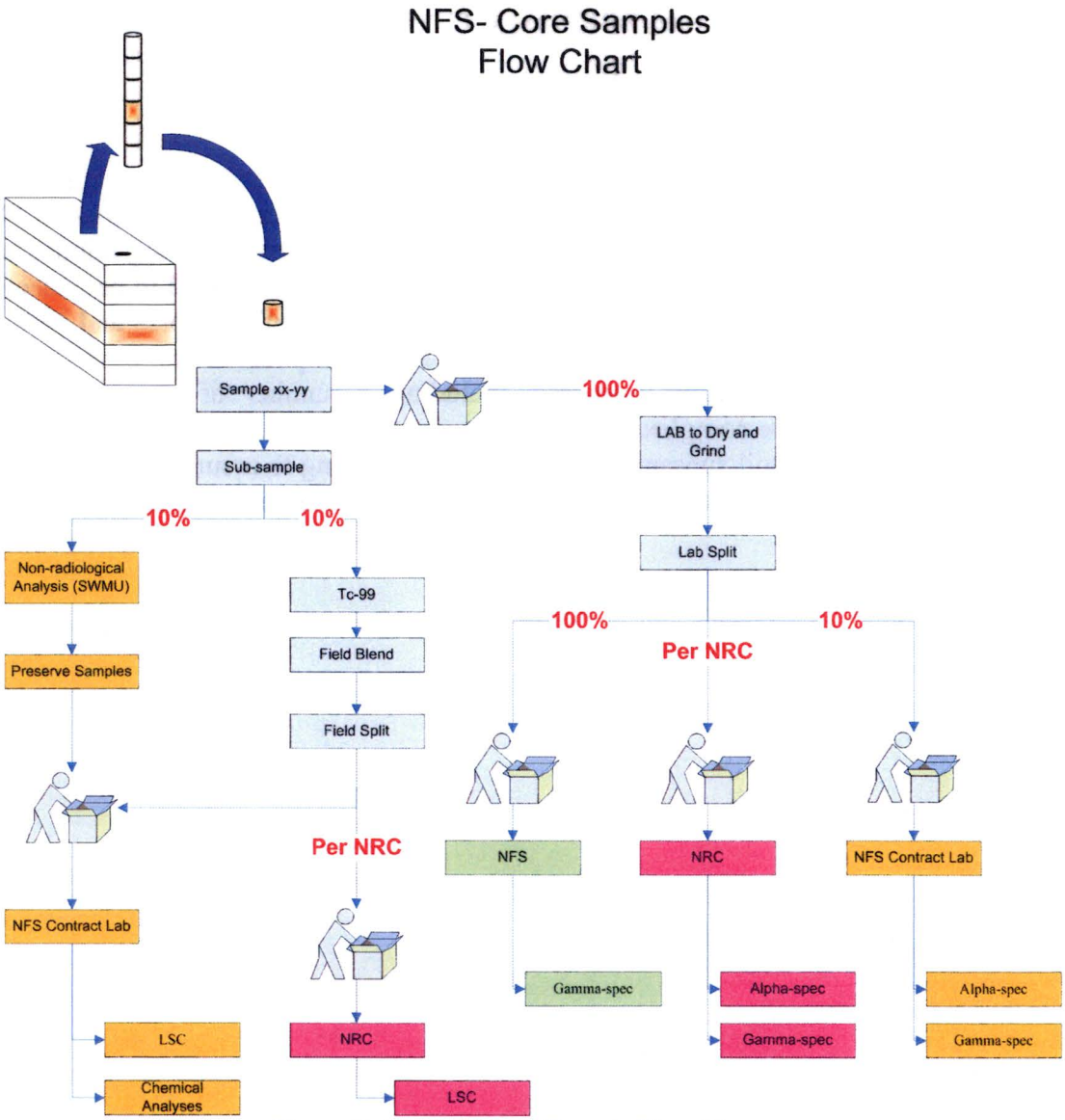


Figure C-1 Project Sample Flow Diagram

The Field Sample Tracking Program is a proprietary database that consists of a "front-end" user interface (Figure C-2) that serves to input sample data, and a main "back-end" database that organizes and catalogues all of the relevant sample and sample program data. The program is built on Microsoft's Access database software application.

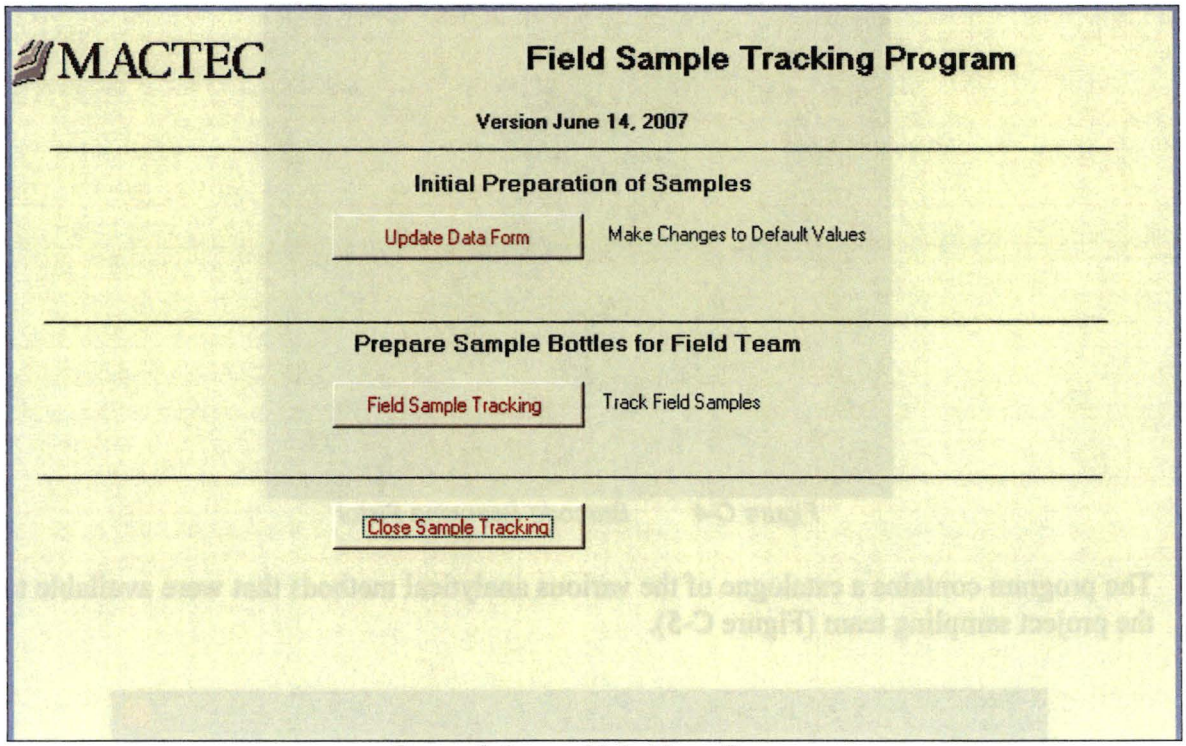


Figure C-2 Main Menu Page

C.1 FIELD SAMPLE TRACKING PROGRAM SETUP

The Field Sample Tracking Program has an array of functions that can be enabled depending upon the requirements and demands of the sampling regime it supports. It is designed to implement and be compatible with the sample collection, documentation, and custody standards required by the EPA. The system was enhanced for this project to incorporate the ability to print unique barcodes on the labels for each sample container (Figure C-3).

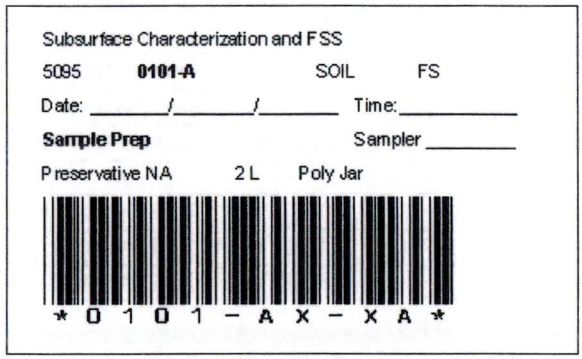


Figure C-3 Preprinted Sample Container Label with Barcode

To reduce the opportunity for transcription errors, a barcode reader was included to allow the user to scan the barcodes attached to samples that had been collected through various steps in the sample management process (Figure C-4).

Figure C-4 Barcode Scanning Pistol

The program contains a catalogue of the various analytical methods that were available to the project sampling team (Figure C-5).

Tbl Method

Method	Matrix	Number of Bottles	Preservative	Bottle Material	Bottle Size	Lab
Sample Prep	S	1	NA	Poly Jar	2	TELEDYNE
Gamma Spec (NFS)	S	0	NA	Poly Jar	250	TELEDYNE
Alpha / Gamma Spec (Paragon)	S	0	NA	Poly Jar	500	TELEDYNE
Alpha / Gamma Spec (ORISE)	S	0	NA	Poly Jar	500	TELEDYNE
Tc-99 (ORISE)	S	1	4 Deg. C	Centrifuge T	50	ORISE
Tc-99 (Paragon)	S	1	4 Deg. C	Centrifuge T	50	PARAGON
VOCs (Paragon)	S	1	4 Deg. C	Terracore k	1	PARAGON
SVOCs / PCBs / Metals* (Paragon)	S	1	4 Deg. C	Glass	8	PARAGON
BLANK, VOCs	L	2	HCl, 4 Deg. C	Glass	40	PARAGON
BLANK, SVOCs	L	2	4 Deg. C	Glass	1	PARAGON
BLANK, PCBs	L	1	4 Deg. C	Glass	1	PARAGON
BLANK, Metals (6010 - As, Be; 7470 - H	L	1	HNO3; 4 Deg. C	Poly Bottle	500	PARAGON
BLANK, Metals (7196A - Hex Chromium;	L	1	4 Deg. C	Poly Bottle	250	PARAGON
Gamma Spec / DUPLICATE (NFS)	S	0	NA	Poly Jar	250	TELEDYNE
Alpha / Gamma Spec / DUPLICATE (Para	S	0	NA	Poly Jar	500	TELEDYNE
Tc-99 / DUPLICATE (Paragon)	S	1	4 Deg. C	Centrifuge T	50	PARAGON
BLANK, Tc-99 (Paragon)	L	1	HNO3	Poly Bottle	1	PARAGON
BLANK, Alpha/Gamma Spec (Paragon)	L	1	HNO3	Poly Bottle	1	PARAGON

Close

Record: 1 of 18

Figure C-5 Catalogue of Available Analytical Methods

The database was preloaded and labeled with records to contain the sample data for 749 cores (the number of coreholes originally planned within the 19 survey units in this project), each with 10 vertically segmented sample intervals. A sequential 4-digit number is assigned to each corehole (e.g., 0001 through 0749). Alphabetic characters (A through J) were assigned to each 1-meter vertical increment from a single soil core. For example, the vertical increment from the ground surface to 1 meter below the ground surface removed from corehole number 0001 is assigned the sample number 0001-A. Every sample was assigned to sample preparation (prep) by Teledyne and gamma spectroscopy by NFS. When opened to *Track Field Samples*, the main data entry screen shows the first sample record in the system. The preloaded information regarding this sample is visible in Figure C-6.

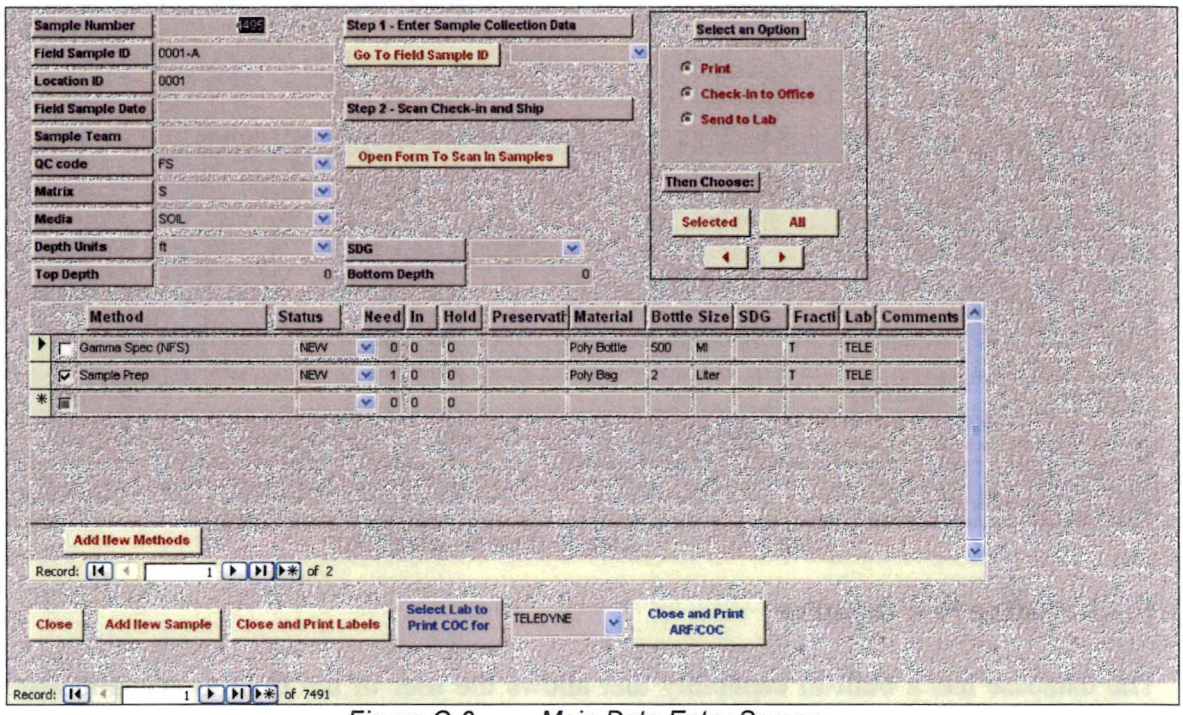


Figure C-6 Main Data Entry Screen

C.2 FIELD SAMPLE TRACKING PROGRAM OPERATIONS

Once the sample records were preloaded into the database, the user would navigate to the appropriate sample record in order to implement the various processes embedded within the program and to add the field-specific data. A particular sample record can be located within the database using any one of several navigation options designed into the program (red circled areas in Figure C-7). Each has its advantage in different situations.

The basic processes available to the user in the Field Sample Tracking Program are

- assigning the appropriate analytical methods for the sample;

- printing labels (with barcodes) for use during sample collection;
- "Checking In" collected samples from the field to the secured sample storage area in the field sample office; and
- preparing samples for shipment to various offsite laboratories, including the automatic generation of sample Chain of Custody (COC) paperwork and electronic COC data files.

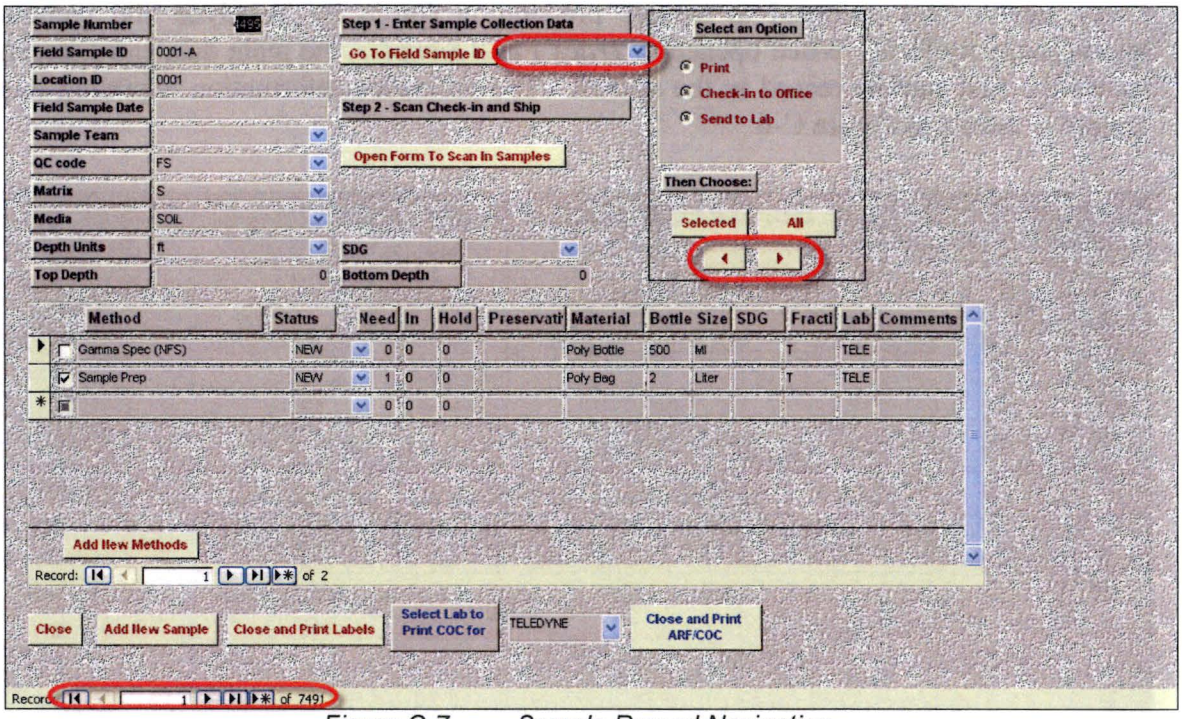


Figure C-7 Sample Record Navigation

C.2.1 Adding New Samples

The database has a built-in capability that allows the user in the field to accommodate samples that are collected, however, for a variety of possible reasons, had not been preloaded in the database (Figure C-8). For example, trip blanks, equipment blanks, matrix spikes, and matrix duplicates could not be preselected and are, therefore, added to the database "on-the-fly" by the field sampling team in the field as they are collected.

C.2.2 Specifying Analytical Methods for a Sample

New or additional analytical methods are also added "on-the-fly." With the appropriate Field Sample ID number displayed in the database, the user simply clicks on the Add New Methods button (Figure C-9). A new window opens up to provide the suite analytical methods available to the user to select from (Figure C-10). From this window, multiple analytical methods can be selected and added to the suite of methods specified for the given sample. When the Add Methods button at the bottom of the window is pushed, the user is returned to the main window of the program where the newly added methods will appear (Figure C-11).

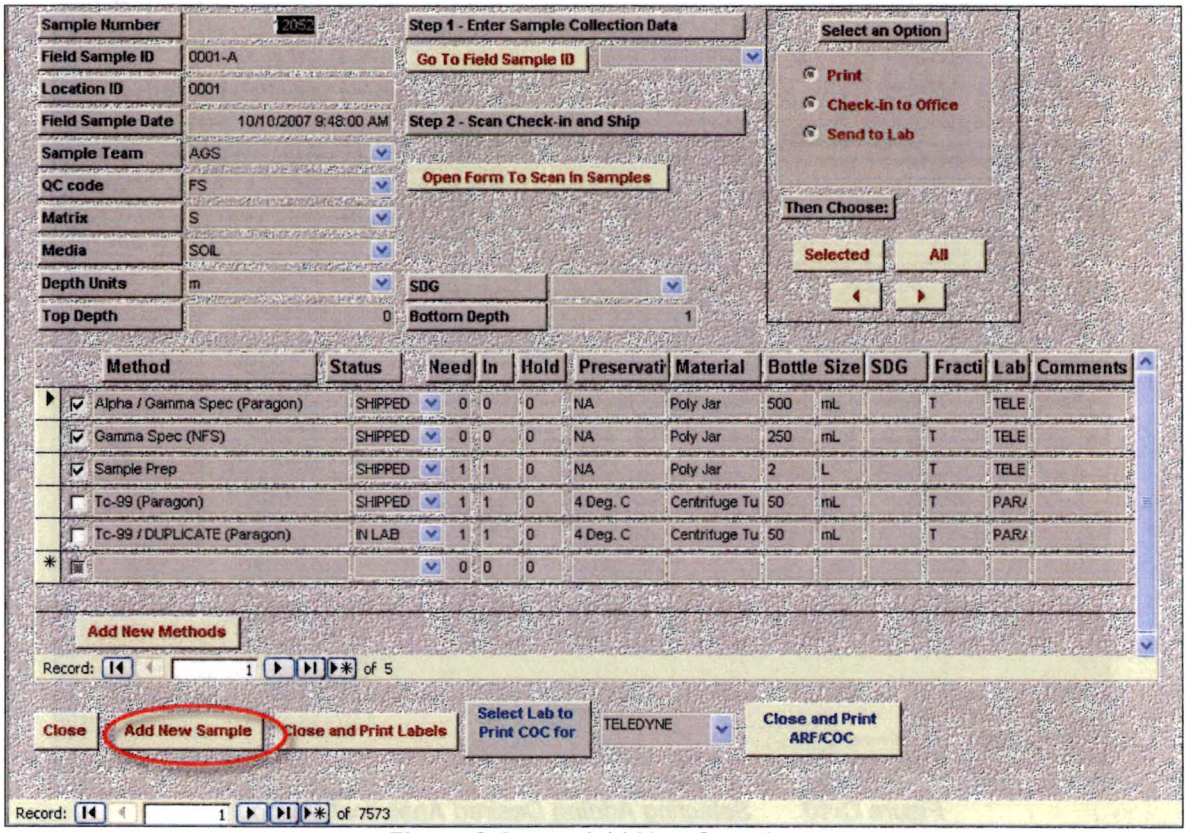


Figure C-8 Add New Sample

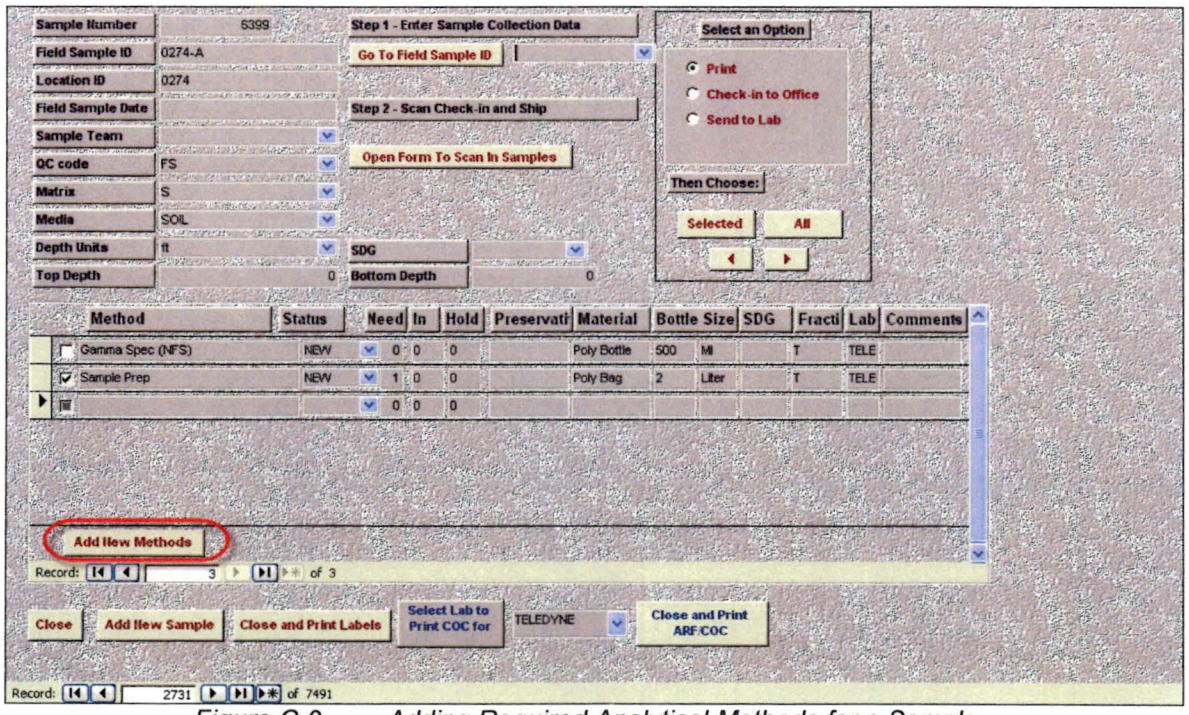
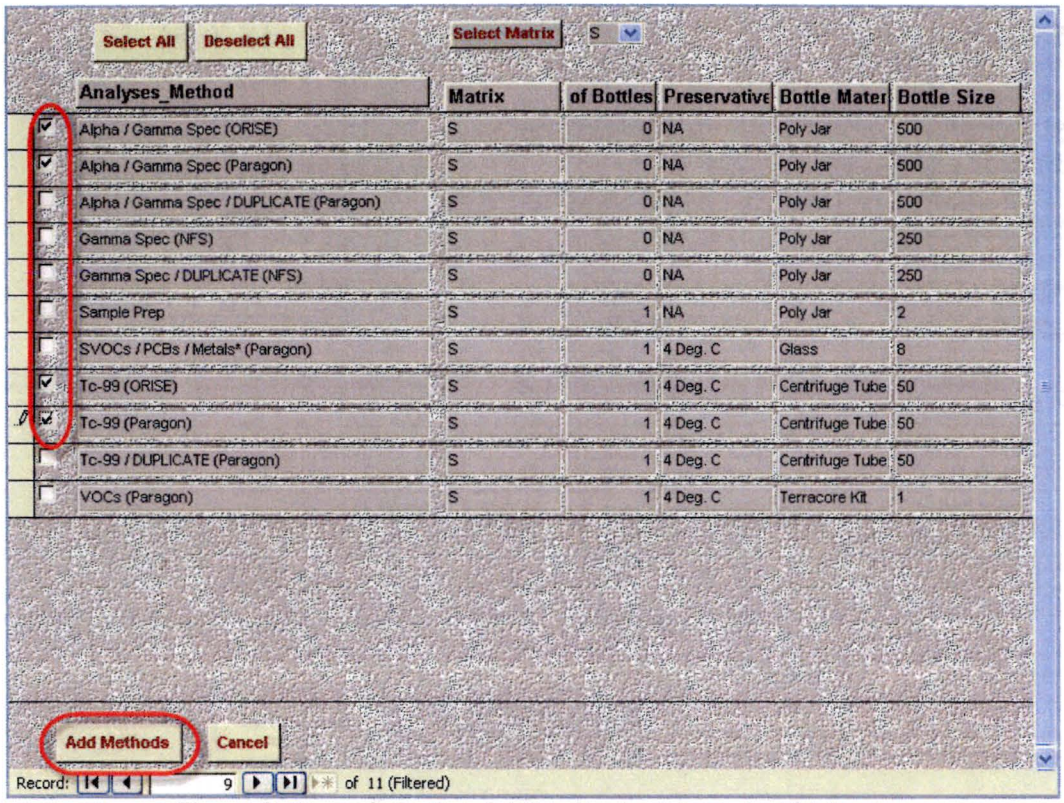


Figure C-9 Adding Required Analytical Methods for a Sample



Select All | Deselect All | Select Matrix | S

	Analyses_Method	Matrix	of Bottles	Preservative	Bottle Mater	Bottle Size
☑	Alpha / Gamma Spec (ORISE)	S	0	NA	Poly Jar	500
☑	Alpha / Gamma Spec (Paragon)	S	0	NA	Poly Jar	500
☐	Alpha / Gamma Spec / DUPLICATE (Paragon)	S	0	NA	Poly Jar	500
☐	Gamma Spec (NFS)	S	0	NA	Poly Jar	250
☐	Gamma Spec / DUPLICATE (NFS)	S	0	NA	Poly Jar	250
☐	Sample Prep	S	1	NA	Poly Jar	2
☐	SVOCs / PCBs / Metals* (Paragon)	S	1	4 Deg. C	Glass	8
☑	Tc-99 (ORISE)	S	1	4 Deg. C	Centrifuge Tube	50
☑	Tc-99 (Paragon)	S	1	4 Deg. C	Centrifuge Tube	50
☐	Tc-99 / DUPLICATE (Paragon)	S	1	4 Deg. C	Centrifuge Tube	50
☐	VOCs (Paragon)	S	1	4 Deg. C	Terracore Kit	1

Add Methods | Cancel

Record: 9 of 11 (Filtered)

Figure C-10 Selecting Adding Desired Analytical Methods

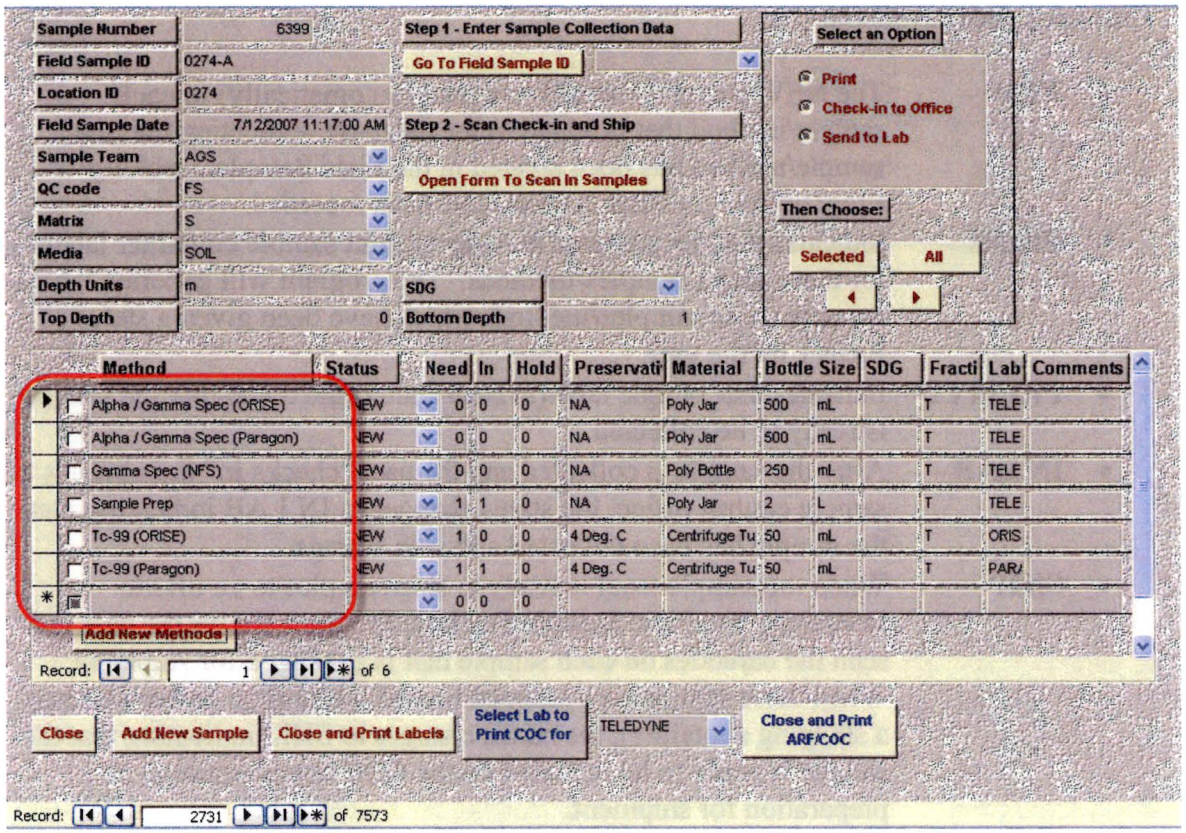


Figure C-11 New Analytical Methods Added to Sample

C.2.3 Sample Status

One of the key data management attributes of the Field Sample Tracking Program is its ability to progressively track the status of a sample in the database. The program assigns one of six status codes to each analytical method assigned to every sample.

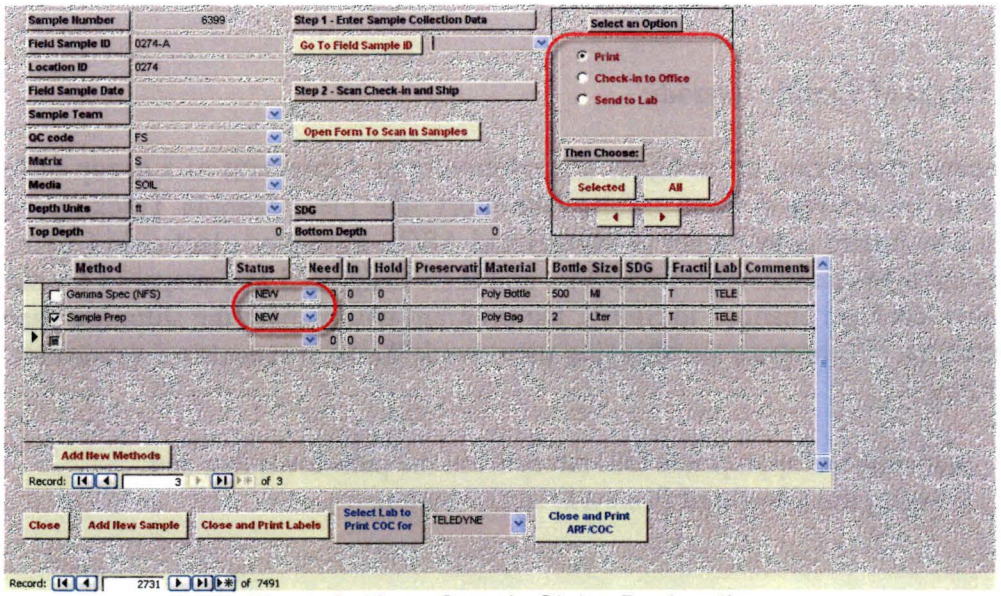


Figure C-12 Sample Status Designation

The status codes available are:

- **NEW** – The NEW status is initially assigned (automatically) to each sample/method that is added to the database, indicating that the sample/method has been created in the Field Sample Tracking Program, but no other actions have been recorded.
- **PRINT** – Indicates that the program is ready to print sample container labels for these select samples/methods. The program will generate labels for only those samples/methods which have been given a status of PRINT by the user.
- **PRINTED** – Indicates that sample label(s) have been printed and that the sample is ready to be collected.
- **IN LAB** – After the sample is collected and the user "checks in" the samples to sample control office, the status changes to IN LAB indicating that the sample has been collected and is in storage.
- **SHIP** – When the sample team is ready to ship samples to an offsite laboratory, the Field Sample Tracking Program allows the user to scan the barcodes on each sample that is packaged for shipment. When these samples are scanned (out of the storage locker and into a shipping container), the status changes to SHIP indicating that the sample is ready to be included on the COC documentation in preparation for shipment.
- **SHIPPED** – After all samples to be shipped have been updated to the SHIP status, the user executes a routine within the program that automatically generates both a hard copy and ASCII format electronic deliverable (COC) that is provided to the selected laboratory along with the samples to be assayed. When the COC has been generated, the status changes to SHIPPED indicating that the sample has been shipped to the laboratory and that analytical data for that sample is forthcoming.

C.2.4 Chain of Sample Custody

As a means of assuring the integrity and continuity of a shipment of a group of samples that are to be delivered to an offsite laboratory, the Field Sample Tracking Program generates both hard copy (paper or image) and ASCII-formatted electronic COCs. Once samples have been collected, checked in, and then designated and prepared for shipment (the status has been changed to SHIP), the program will prepare the shipping paperwork automatically. To prepare the shipping paperwork the user executes a subroutine in the program by:

1. Selecting the appropriate laboratory from the pull-down list, and
2. Pressing the *Close and Print ARF/COC* button.

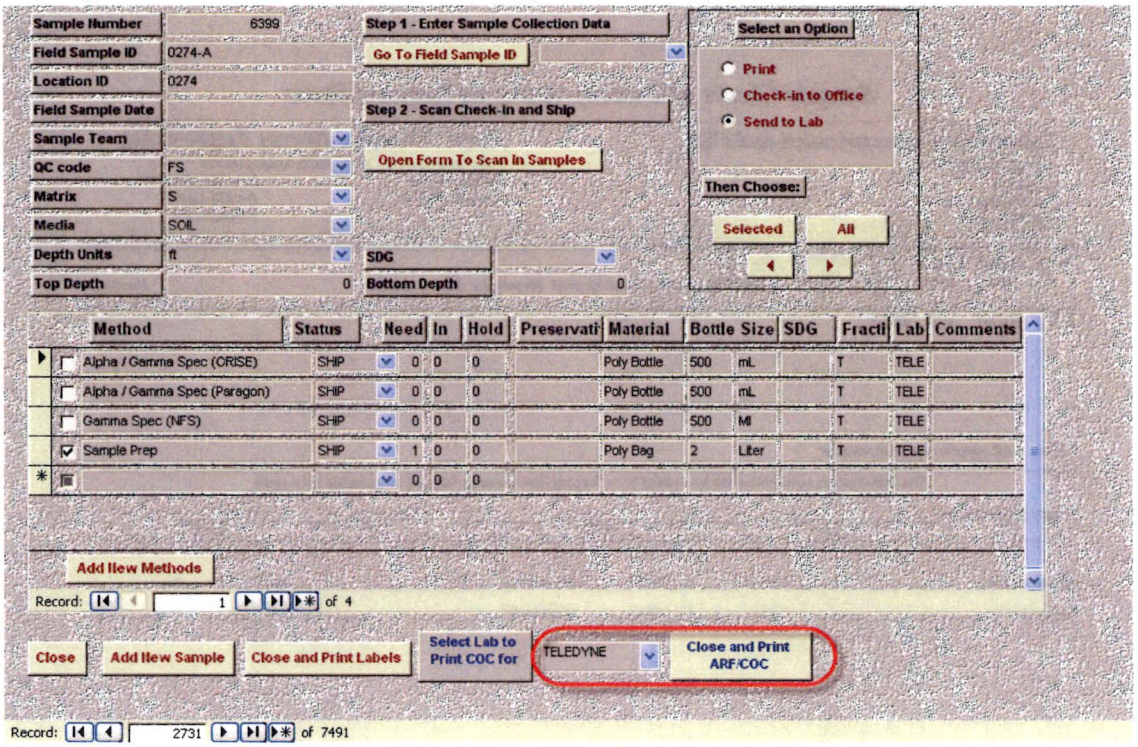


Figure C-13 Generation of Sample Shipping Records

Sample Chain of Custody/Analysis Request Form

Subsurface Characterization and FSS

NFS/MACTEC
Scott Morris
423-743-8741 ext: 1439
NFS PO# 1234567

Lab: Teledyne Brown Engineering

ATTN: Sample Receiving, SLA NF CODE: MA001-ZBR C407
2508 Quality Lane
Knoxville, TN 37932
Phone: (865) 934-0379
Fax: (865) 934-0396
Tbeerlab@tbe.com

Samp #	Sample Date	Sample Time	Field Sample ID	Method / Barcode ID	Qty Total	Qty Each	Bottle Size and Material	Preservative	Media	Method	Fraction
6399	07/12/07	11:17	0274-A		1						
						0	250 m L Poly Bottle	NA	SOIL	Gamma Spec (NFS)	T
				0274-AX-XA		1	2 L Poly Jar	NA	SOIL	Sample Prep	T
						0	500 m L Poly Jar	NA	SOIL	Alpha / Gamma Spec (Paragon)	T

Note: All samples are grab samples

This chain of sample custody record has been verified by the Sampling Team Leader (or designee) to be complete and accurate

Sampling Team Leader: _____ / _____ Date: __/__/__ Time: _____
Print Signature mm dd yy 24 hour

Relinquished By: _____ Date: __/__/__ Time: _____ Received By: _____ Date: __/__/__ Time: _____
Relinquished By: _____ Date: __/__/__ Time: _____ Received By: _____ Date: __/__/__ Time: _____

*Knowingly or willfully falsifying or concealing a material fact on this form, or making false, fictitious, or fraudulent statements or representations herein could constitute a felony punishable under Federal Statute

Friday, December 07, 2007 MACTEC *Page 1 of 1*

Figure C-14 Example Sample Chain of Custody Form

TELEDYNE1115COC.txt - Notepad

File Edit Format View Help

```
"Temp_sample_no","coc Lab Id","Sampling Organization","Client
Name","Project_No","BarCodeText","Field_Sample_ID","Field_Sample_date","Matrix","Media","QC_
code","Depth_uom","top_depth","bottom_depth","analysis_method","fraction","Number
Needed","Number returned","Bottle Size","Bottle
Material","Bottle_size_units","Preservative","Hold Time","Comment","Note"
6513,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0293-AX-XA","0293-A",11/12/2007 14:55:00,"S","SOIL","FS","m",0.00,1.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6514,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0293-BX-XA","0293-B",11/12/2007 15:00:00,"S","SOIL","FS","m",1.00,2.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6515,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0293-CX-XA","0293-C",11/12/2007 15:02:00,"S","SOIL","FS","m",2.00,3.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6519,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0294-AX-XA","0294-A",11/12/2007 15:35:00,"S","SOIL","FS","m",0.00,1.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6520,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0294-BX-XA","0294-B",11/12/2007 15:37:00,"S","SOIL","FS","m",1.00,2.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6521,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0294-CX-XA","0294-C",11/12/2007 15:41:00,"S","SOIL","FS","m",2.00,3.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6525,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0295-AX-XA","0295-A",11/12/2007 16:05:00,"S","SOIL","FS","m",0.00,1.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6526,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0295-BX-XA","0295-B",11/12/2007 16:09:00,"S","SOIL","FS","m",1.00,2.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6527,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0295-CX-XA","0295-C",11/12/2007 16:15:00,"S","SOIL","FS","m",2.00,3.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
6528,"Teledyne Brown Engineering","NFS/MACTEC","Subsurface Characterization and FSS","NFS
PO# 1234567","0295-DX-XA","0295-D",11/12/2007 16:20:00,"S","SOIL","FS","m",3.00,4.00,"Sample
Prep","T",1,1,"2","Poly Jar","L","NA",0,,"All samples are grab samples"
```

Figure C-15 Example ASCII-formatted Electronic Chain of Custody File

C.3 Managing Analytical Data

In addition to its utility for managing sample collection data in the field, the Field Sampling Tracking Program is also used by Amec Foster Wheeler as a component of its data validation process. Data from the Field Sample Tracking Program is merged into a master database along with the analytical data results received from the various laboratories. This master database is, like the Field Sample Tracking Program, an Amec Foster Wheeler proprietary database design. The database is called "TEDS" (an acronym for Technical Environmental Database System). Once the data is merged into TEDS, a variety of data queries can be executed to qualify, verify, evaluate and validate the data. The principal contribution of the Field Sample Tracking Program to the TEDS database is the ability to verify that the laboratory provided analytical results for every sample and every analyte that was specified by the field sampling team.

Appendix D

Soil Boring Logs

Appendix D.1

Soil Boring Logs

Survey Unit 4

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-050

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/16/11 **Driller:** Jeremy Triephe **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	GW SC	dark gray (7.5YR 5/1) well-graded GRAVEL (GW), dry. Shale & dolomite cobble.
2	0.6	4.0/5.0'	RMC 6/16/11		FILL MATERIAL; some reddish brown (5YR 5/4) clayey fine SAND
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8			MH	very dark gray (7.5YR 4/1), clayey elastic SILT (MH), moist, some organics & roots; slight organic-like odor
7	2.1	5.0/5.0			
8	2.4				
9	2.7				9.0'-12.5' gray (7.5YR 6/1), clayey f-c SAND w/ some SA-SR gr, gr up to 2" in Ø, wet, alluvium
10	3.1	10'-15'	▽ W.T.	SC	
11	3.4				
12	3.7	4.5/5.0	appx 10.0 bgs		12.5'-23.0' light olive brown (2.5Y 5/4) silty f-c SAND w/ some SA-SR gravel, wet, gr. up to 3" in Ø
13	4.0			SM	
14	4.3				
15	4.6	15'-20'			SAA; gr up to 5" in Ø
16	4.9				
17	5.2	3.5/5.0			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-050

Date Started: 6/16/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/16/11 Driller: Jeremy Triaphe Survey Unit: 4

Logged By: [illegible] Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4		Alluvium	SM	
22	6.7				
23	7.0				dark yellowish brown (10YR 4/4) elastic
					SILT (MH) w/ some ang. gr-sized
24	7.3		Residuum	MH	slate fragments, weathered Rome Formation
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-051

Date Started: 6/30/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 2
Date Completed: 6/30/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4	
Logged By: Skelly	**Equipment:** mini-SMIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-2.5 v. dk. gray (GLEY 1 3/N) si. sa.
1	0.3	100%			GRAVEL (shale), moist
2	0.6				
3	0.9			SM-ML	2.5-5 yellowish brown (10YR 5/8) sa. gr.
					SILT to si. gr. SAND, moist
4	1.2				
6	1.5	5-10	Residual	SM	5-10 Gray (GLEY 1 6/N) cl. si. f-m SAND
6	1.8	100%	Floodplain		moist, gravel is SA to WR up to 4" ϕ
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			10-27 yellowish brown (10YR 5/8) si. sa.
11	3.4	20%			GRAVEL to si. gr. SAND, gravel is
					SA to WR up to 4" ϕ
12	3.7				
13	4.0				
14	4.3				
15	4.6				
		15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-051

Date Started: 6/30/11	Drilling Contractor: Bartlang year	Page 2 of 2			
Date Completed: 6/30/11	Driller: Jeremy Triepke	Survey Unit: 4			
Logged By: S. Kelly	Equipment: mini Sonic	Elevation: TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25	Alluvial	GP-SP	
21	6.4	100%			
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30			
26	7.9	100%			
27	8.2		Residual	ML	27-30 brownish yellow (10YR 6/8) SILT w/ angular gravel, wet (Saturated (weathered Rome Fm)
28	8.5				
29	8.8				
30	9.2				Boring terminated @ 30ft bgs
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-052

Date Started: 6/27/11 | Drilling Contractor: Boart Longyear | Page 1 of 2

Date Completed: 6/27/11 | Driller: Jeremy Triepke | Survey Unit: 4

Logged By: S. Kelly | Equipment: mini Sonic | Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	Fill	SP	0-1 dk. reddish brown (5YR 2.5/1) si. gr. sand, moist
1	0.3		Possible Fill	SM	1-5 reddish brown (7.5YR) and light gray (5YR 7/1) mottled si. cl. SAND, moist
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%	Post-Fill Alluvial	SM	5-7 light gray (GLEY 1 7/1) si. cl. f-m SAND, v. moist to wet
6	1.8				
7	2.1			GP	7- strong brown (7.5YR 4/6) si. sa. GRAVEL, wet
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20 100%			
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-052

Date Started: 6/27/11	**Drilling Contractor:** Boart Longyear	**Page** 2 **of** 2
Date Completed: 6/27/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4
Logged By: Sleeth	**Equipment:** mini Sonic	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 100%	Alluvial	GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30 100%			
26	7.9				
27	8.2				
28	8.5				27.5-28.5 dk. reddish brown si. sa. GRAVEL, wet
29	8.8		Residual	ML	28.5-30 dk. reddish brown (5YR 3/4) to strong brown (7.5YR 5/6) SILT w/angular gravel (weathered Ponne fm.) moist to wet
30	9.2				
31	9.5				Boring Terminated @ 30ft bgs
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-053

Date Started: 6/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/24/11 **Driller:** Ernest Schull **Survey Unit:** 4

Logged By: Sikelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4	Possible		0-3.5 brownish yellow (10YR) si. cl.
1	0.3	100%	Fill		SAND w/ gravel, gravel is SA to SR
					some organics (roots
2	0.6				2.5-3 light bluish gray (GLEY 2 7/1) sl. sa.
					CLAY with organics
3	0.9		Floodplain	CL	
			Alluvial	ML	3-4 Gray (GLEY 1 6/N) cl. sa. SILT, wet,
4	1.2		floodplain		
		4-7	Alluvial	GP	
5	1.5	100%			4-7 yellowish brown (10YR 5/4), si. sa.
					GRAVEL, gravel is SA to SR
6	1.8				
7	2.1				7-28 SAA but yellowish brown (10YR 5/8)
8	2.4				
9	2.7	9-14			
10	3.1	100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3	14-19			
15	4.6	50%			
16	4.9				
17	5.2				
18	5.5				
19	5.8	19-24			
20	6.1	100%			

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-053

Date Started: 6/24/11 Drilling Contractor: Boartlongyear Page 2 of 2
Date Completed: 6/24/11 Driller: Ernest Schull Survey Unit: 4
Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
			Alluvial	GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3	24-29			
25	7.6	100%			
26	7.9				
27	8.2				
28	8.5		Residual	ML	28-29 yellowish brown (10YR 5/8) SILT w/
29	8.8				Slate fragments (weathered Bone fm.)
					Boring terminated @ 29 ft
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-054

Date Started: 7/21/11 Drilling Contractor: [illegible] Page 1 of 2

Date Completed: 7/21/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5' reddish brown (7.5YR 5/4), clayey f-c SAND, trace SA-SR
1	0.3		Alluvium	SC	gravel, wet, gr up to 4" in Ø
2	0.6	3.5'/5.0'			mostly f-c quartz sand
3	0.9				
4	1.2				
5	1.5	5'-10'			5'-8' very dark gray GLEY 1 (3/10Y) clayey f-c SAND (SC) w/some SA-SR gravel, wet-saturated gr. up to 3" in Ø
6	1.8				
7	2.1				
8	2.4	4.5'/5.0'			8'-13' light yellowish brown (10YR 6/4) silty f-c SAND, w/some SA-SR gravel, wet alluvium, gr is up to 3" in Ø, mostly f-c quartz sand, well graded
9	2.7			SM/SW	
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				13'-20' strong brown (7.5YR 5/6) clayey f-c SAND, wet, gr is SA-SR & up to 3" in Ø
14	4.3			SC	
15	4.6				~~Terminate Boring @ 15' bgs~~ 7/21/11
		15'-20'			
16	4.9				
17	5.2				
18	5.5	2.0'/5.0'			
19	5.8				
20	6.1				20' - see page 2

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-054

Date Started: 7/21/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2
Date Completed: 7/21/11 **Driller:** Jeremy Triepke **Survey Unit:** 4
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			20'-33'
21	6.4		Alluvium	SM/SW	brown (7.5YR 5/3), silty, well graded f-c SAND, wet, ~~some~~ few SA-SR gravel
22	6.7	5.0'/5.0'			gravel up to 2" in Ø RMC
23	7.0				
24	7.3				
25	7.6	25'-30'			
26	7.9				
27	8.2	5.0'/5.0'			
28	8.5				
29	8.8				
30	9.2	30'-35'			
31	9.5				
32	9.8	5.0'/5.0'			33'-35'
33	10.1				brownish yellow (10YR 6/6), elastic
34	10.4		Residuum	MH	SILT (MH) w/ some angular gravel sized shale fragments, Weathered Rock
35	10.7				Terminate Boring @ 35 formation
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-055

Date Started: 7/20/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 2
Date Completed: 7/20/11	**Driller:** Jeremy Triephe	**Survey Unit:** 4	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0	Z		0.0'-5.0'
1	0.3		Alluvium	SC	brown (7.5YR 4/4) clayey f-c SAND (SC) w/some SA-SR gravel, moist-
2	0.6	4.0'/5.0'			wet, gr. up to 3" ~~in~~
3	0.9				
4	1.2				5.0'-10.0' same as above
5	1.5				yellowish brown (10YR 5/6) B
6	1.8	5'-10'			saturated
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'		SM	10.0'-20.5' yellowish brown, silty f-c SAND (SC), wet, some SA-SR gravel, wet
12	3.7	3.5'/5.0'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20			
17	5.2	3.8'/5.0'			
18	5.5				
19	5.8				
20	6.1				Advance casing to 20' due to collapse of borehole

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. B-055

Date Started: 7/20/11	**Drilling Contractor:** Boart Longyear	**Page** 2	**of** 2		
Date Completed: 7/20/11	**Driller:** Jeremy Trieleke	**Survey Unit:** 4			
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				brownish yellow (10YR 6/6), elastic SILT (MH) w/ some angular gr-sized shale fragments
22	6.7	5.0'/5.0'	Residuum	MH	Weathered Rome Formation
23	7.0				
24	7.3				
25	7.6				Terminate Boring @ 25' bgs
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-056

Date Started: 7/20/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 7/20/11 **Driller:** Jeremy Triepke **Survey Unit:** 4
Logged By: Rodney M. Clark **Equipment:** Mainsonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-10.0'
1	0.3		Alluvium	SC	very pale brown (10YR 7/3), clayey f.c. SAND (SC) w/some SA-SR gravel wet, gr. is up to 3" in ⌀
2	0.6	4.5'/5.0'			
3	0.9				
4	1.2				grades to brown (7.5YR 5/4)
5	1.5	5'-10'			same as above and yellowish brown (10YR 5/6)
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				10.0'-17.0'
10	3.1				yellowish brown (10YR 5/6), silty gr-f.c.
11	3.4	10'-15'			SAND, w/some SA-SR gravel, gr is
12	3.7	4.0'/5.0'		SM	up to 3" in ⌀, wet
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				17.0'-20.0'
17	5.2	5.0'/5.0'			brownish yellow (10YR 6/6), elastic
18	5.5		Residuum	MH	SILT w/ avg. gr-sized slate fragments weathered Rome Formation
19	5.8				
20	6.1				Terminated Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-057

Date Started: 6/29/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 2		
Date Completed: 6/29/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4			
Logged By: S. Kelly	**Equipment:** miniSonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-2 dk gray (GLEY1 4/N) si. sa.
1	0.3	100%			angular GRAVEL, moist
2	0.6				and lt. gray (10YR 7/1)
				SP	2-14 brownish yellow (10YR 6/6) f-c
3	0.9				SAND, some silt, some clay, moist
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				14-29 dk yellowish brown (10YR 3/6) si. sa. GRAVEL, wet to saturated, gravel is SA to WR up to 4" Φ
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-057

Date Started: 6/29/11 Drilling Contractor: Beart Longyear Page 2 of 2

Date Completed: 6/29/11 Driller: Jeremy Trlepke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 2520	Alluvial	GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30 2520			
26	7.9				
27	8.2				
28	8.5				
29	8.8		Residual	ML	29-30 strong brown (7.5YR 5/8) SILT w/ angular gravel/shale (weathered Pome Fm.) wet
30	9.2				Boring Terminated at 30 ft bgs
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-058

Date Started: 6/29/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/29/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	SM-SP	0-4 dark gray (GLEY1 4/N) and yellowish brown (10YR 5/8) si. cl. SAND w/ some gravel (angular - shale) v. moist
1	0.3	75%			
2	0.6				
3	0.9				
4	1.2		Alluvial	SM	4-5 light gray (GLEY1 7/N) cl. si. m-c SAND some gravel, v. moist, some gravel (SA to SR)
5	1.5	5-10			5+ strong brown (7.5YR 4/6) si. gr. SAND to si. sa. GRAVEL, gravel is SA to WR up to 4" ϕ
6	1.8	100%		?	
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-058

Date Started: 6/29/11 Drilling Contractor: Scott Longyear Page 2 of 2

Date Completed: 6/29/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25			
21	0.3	100%	Residual	ML	20.5-25 strong brown (7.5YR 5/8) SILT with angular gravel (weathered Rome Fm.), wet to moist
22	0.6				
23	0.9				
24	1.2				
25	1.5				Boring Terminated @ 25 ft bgs
26	1.8				
27	2.1				
28	2.4				
29	2.7				
30	3.1				
31	3.4				
32	3.7				
33	4.0				
34	4.3				
35	4.6				
36	4.9				
37	5.2				
38	5.5				
39	5.8				
40	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-059

Date Started: 6/23/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/23/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0.0'-2.0'	WT @ surface		0.0' to 3.0' grayish brown (10YR 5/2) sandy ~~fine~~ lean ~~SAND (SM)~~ RMC 6/23/11 w/ some coarse SA-SR gravel silty (CL) wet, some SA-SR gravel, gr. is up to 4" in Ø 3.0'-7.0'
1	0.3	No recovery	Alluvium	CL	
2	0.6	2.0'-7.0'	Sample 14		~~SAT. except Rec~~ 6/23/11 3.0'-7.0'
3	0.9				brownish yellow (10YR 6/6) ~~except Rec~~ 6/23/11 clayey f-c SAND (SC), wet, some SA-SR gravel
4	1.2	4.5'/5.0'		SC	*boring in base of drainage feature from a spring
5	1.5				
6	1.8				
7	2.1	7.0'-12.0'			7.0'-21.0' (10YR 5/3) brown, silty, f-c SAND w/ some SA-SR (SM), wet, mostly quartz sand, gr up to 2" in Ø
8	2.4	5.0'/5.0'		SM	
9	2.7				
10	3.1				
11	3.4				
12	3.7	12'-17'			
13	4.0				
14	4.3	4.5'/5.0'			
15	4.6				
16	4.9				
17	5.2	17'-22'			
18	5.5				
19	5.8	5.0'/5.0'			
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-059

Date Started: 6/23/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/23/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4		Residuum	ML	brownish yellow (10YR 6/6) lean SILT (ML) w/ some avg. gr. sized shale, Weathered Rome Fm
22	6.7				terminate Boring @ 22
23	7.0				
24	7.3				
25	7.6				
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-060

Date Started: 6/29/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 2
Date Completed: 6/29/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4	
Logged By: S. Kelly	**Equipment:** mini sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Fill	SP	0-4 yellow 10YR(7/6) and lt. gray (10YR 7/1)
1	0.3	100%			m-v.coarse SAND w/ some silt/clay
					? gravel, moist ~~to wet~~ SD 6/29/11
2	0.6				
3	0.9				
4	1.2		alluvial	SM	4-5 light gray (GLEY1 7/1) cl. SAND, v. moist
5	1.5			?	32.5
		5-10			5-A yellowish brown (10YR 5/6) si.gr. SAND
6	1.8	100%		SP-GP	to si.sa.GRAVEL, gravel is SA to WR
					up to 1" ϕ
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-060

Date Started: 6/29/11	Drilling Contractor: Boart Longyear	Page 2 of 2
Date Completed: 6/29/11	Driller: Jeremy Triepke	Survey Unit: 4
Logged By: S. Kelly	Equipment: minisonic	Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 25%	alluvial	SP-GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30 25%			
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2	30-35 100%			
31	9.5				
32	9.8				
33	10.1		Residual	ML	32.5-35 yellowish brown (10YR 5/8) SILT w/ angular gravel, wet (weathered Perne Fm.)
34	10.4				
35	10.7				Boring Terminated @ 35ft bgs
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B061

Date Started: 6/30/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/30/11 Driller: Jeremy Trieptke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-1 v.dk. gray (GLEY1 3/N) angular
1	0.3	100%			gravel (shale)
					1-4 strong brown (7.5YR 4/6) sa. SILT,
2	0.6				moist, little gravel
3	0.9				
			residual/floodplain		
4	1.2	0-8	ML	ML	1-4.5 v.dk. gray (7.5YR 3/1) SILT, trace
5	1.5			ML	organics
		5-10			4.1-5.5 strong brown (7.5YR 4/6) cl. SILT,
6	1.8	100%		SP	moist
					5.5-10 brownish yellow (10YR 6/6) and
7	2.1				light gray (GLEY1 7/N) sl. gr. SAND,
					moist, gravel is SA to WR up to 2" ø
8	2.4				
9	2.7				
10	3.1	10-15		SM	10-13 strong brown (7.5YR 4/6) sl. f-m
11	3.4	100%			SAND, moist to wet
12	3.7				
13	4.0		Alluvial	SP-GP	13-29 strong brown (7.5YR 4/6) sl. gr.
14	4.3				SAND to sl. sa. GRAVEL, wet/saturated
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-051

Date Started: 6/30/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/30/11 **Driller:** Jeremy Triepke **Survey Unit:** 4

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 100%	Alluvial	SP-GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30 100%			
26	7.9				
27	8.2				
28	8.5				
29	8.8		Residual	ML	29-30 reddish yellow (5YR 6/8) SILT w/ some angular gravel, wet (weathered Rome Fm.)
30	9.2				Boring terminated @ 30ft bgs
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-062

Date Started: 7/21/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 7/21/11 Driller: Jeremiah Triepke Survey Unit: 4

Logged By: Rodney Clark Equipment: Mobisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0-3.5'
1	0.3			SC	Gray (7.5YR 5/1), clayey, f-c SAND w/ some SA-SR gravel, gr up to 2" in Ø
2	0.6	4.0'/5.0'	Alluvium		saturated, some organic
					3.5'-11'
3	0.9				brown (7.5YR 5/4), clayey f-c SAND
4	1.2				w/ some SA-SR gravel, wet saturated
					gr is up to 3" in Ø, Alluvium
5	1.5				
		5'-10'			
6	1.8				
7	2.1	2.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			11'-15'
11	3.4				
					Grownish yellow (10YR 6/6)
12	3.7	5.0'/5.0'			elastic SILT (MH) w/ some ang.
					gravel-sized shale fragments
13	4.0		Residuum	MH	Weathered Rome Formation
14	4.3				
15	4.6				Terminate boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-063

Date Started: 7/21/11 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 7/21/11 **Driller:** Jeremy Triepke **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6), clayey f-c SAND (SC) w/some SA-SR gravel, wet,
2	0.6	4.6/5.0'			gravel up to 3" in ⌀, alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-15.0' Same as above except saturated
6	1.8				
7	2.1	4.6/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	2.5/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-17'
16	4.9		Residuum	MH	yellow (10YR 6/6), elastic, SILT (MH) w/angular gravel-sized
17	5.2				shale fragments, weathered
18	5.5		Bedrock	GW	Rone Formation Shale
19	5.8				
20	6.1				Terminated Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B 064

Date Started: 6/28/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/29/11 Driller: Jeremy Fripke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-3.5 v. dk. gray, angular GRAVEL, w/ some
1	0.3	100%			sa. & si., moist GLEY1 3/1N)
2	0.6				
3	0.9				
4	1.2			ML	3.5-9 yellowish red (5YR 4/6) cl. SILT, moist to wet
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7		Residual floodplain	SP	9-11 yellow (10YR 7/8) si. cl. f-c SAND w/
10	3.1	10-15			gravel (SA to SR) up to 2" ϕ
11	3.4	100%		SP	11-13 dk. yellowish brown (10YR 4/4) si. SAND
12	3.7				moist to wet, some gravel, some mica
13	4.0				13-15 olive brown (2.5YR 4/3) si. cl. SAND
14	4.3				w/ some ~~large (SR)~~ cobbles up to 4" ϕ SR
15	4.6	15-20	Alluvial	GP	15 strong brown (7.5YR 4/6) si. sa.
16	4.9	100%			GRAVEL, gravel is SA TO WR up to 4" ϕ
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-064

Date Started: 6/28/11 Drilling Contractor: Beartrap Page 2 of 2

Date Completed: 6/28/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: S. Kelly Equipment: Mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 100%	alluvial	GP	
21	6.4				
22	6.7				
23	7.0		Residual	ML	22.5-25 strong brown (7.5YR 5/6) SILT with angular gravel (weathered Rome Fm.) sl. moist to moist.
24	7.3				
25	7.6				Boring Terminated @ 25 ft bgs
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B065

Date Started: 6/28/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 2
Date Completed: 6/28/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4
Logged By: S. Leith	**Equipment:** mini Sonic	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	FILL	GP	0-3 dk. grey (GREY 1 4/N) angular gravel (shale)
1	0.3				
2	0.6				
3	0.9	(5) 6/28/11	Floodplain Possible Fill	ML	3-8.5 yellowish red (5YR 4/6) cl. SILT, v. moist
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7		Floodplain	SP	8.5-12.5 dk. yellowish brown (10YR 4/4) si. f-c SAND w/ some gravel (SA to SR up to 3" Φ)
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0		Alluvial	GP	12.5-25 light olive brown (2.5Y 5/4) si. f-very c SAND w/ gravel, gravel is SA to WR up to 4" Φ
14	4.3				
15	4.6	15-20 100%			
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-065

Date Started: 6/28/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/28/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 50%	Alluvial	GP	
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-30 50%			
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2	30-35			
31	9.5				
32	9.8				
33	10.1		Residual	ML	32.5-35 strong brown (7.5YR 5/6) SILT w/ angular gravel (weathered Rome Fm.) wet
34	10.4				
35	10.7				Boring Terminated @ 35 ft bgs.
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-066

Date Started: 6/27/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 2
Date Completed: 6/27/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4 100%	Possible Fill	SP	0-3 reddish yellow (7.5YR 6/6) si. gr. m-c SAND, wet
1	0.3				
2	0.6				
3	0.9		Alluvial	GP	3-19 strong brown (7.5YR 4/6) si. sa. GRAVEL, wet, gravel is SA to WR up to 1" ⌀
4	1.2	4-9 100%			
5	1.5				
6	1.8				
7	2.1				
8	2.4				
9	2.7	9-14 100%			
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3	14-19 100%			
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8	19-24 100%	Residual	ML	19-24 strong brown (7.5YR 4/6) SILT with angular gravel (weathered Rome Fm.) moist to wet
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-066

Date Started: 6/27/11	Drilling Contractor: Boart Longyear	Page 2 of 2
Date Completed: 6/27/11	Driller: Jeremy Triepke	Survey Unit: 4
Logged By: S. Kelly	Equipment: mini Sonic	Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
			Ag Residue	ML	
21	6.4				
22	6.7				
23	7.0				
24	7.3				Boring terminated @ 24 ft bgs
25	7.6				
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-067

Date Started: 6/27/11	**Drilling Contractor:** Peart Longyear	**Page** 1	**of** 1		
Date Completed: 6/27/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4			
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-9 100%	Alluvial	SP	0-6 brownish yellow (10YR 6/6) si. gr. SAND, wet, gravel is SA to SR m-v.coarse
1	0.3				
2	0.6				
3	0.9				
4	1.2	4-9 100%			
5	1.5				
6	1.8				6-9 SAA but yellowish brown (10YR 5/8)
7	2.1				
8	2.4				
9	2.7	9-14 100%		~~GP~~ SP GP	9-18.5 brown/gray (7.5YR 4/6) SA. GRAVEL is SA to WR, wet
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3	14-19 100%			
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8		Residual	ML	18.5-19.0 - yellowish brown (10YR 5/8) SILT w/ angular gravel (weathered Penna Fm.) wet. Boring terminated @ 19.0' bgs
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD
NFS - North Site SSDCGL Project
MACTEC Project 9120-07-1235

BORING NO. B-068

Date Started: 6/21/11 Drilling Contractor: Boart Longyear Page 1 of 2
Date Completed: 6/21/11 Driller: Ernest Schutt Survey Unit: 4
Logged By: Rodney Clark Equipment: Mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		WT @ surface			0.0'–7.0'	
1	0.3	0'–5'	Alluvium		strong brown (7.5YR 5/6) clayey f-m SAND, some coarse sand, few SA-SR gravel, few organics, mostly quartz, w/ some mica, wet	NA
2	0.6					
3	0.9	4.5'/5.0'				
4	1.2			SM		
5	1.5					
6	1.8	5'–10'			7.0'–15.0' yellowish brown (10YR 5/6) clayey f-c SAND (SC), some SA-SR gr. gr up to 4" in Ø wet	
7	2.1	5.0'/5.0'		SC		
8	2.4					
9	2.7			SC		
10	3.1	10'–15'				
11	3.4					
12	3.7	4.5'/5.0'				
13	4.0					
14	4.3				15'– yellowish brown, sandy well graded GRAVEL, wet, gravel is SA-SR and up to 4" in Ø, some f-c quartz sand some clay/fines	
15	4.6					
16	4.9	15'–20'		SW		
17	5.2					
18	5.5	3.5'/5.0'				
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-068

Date Started: 6/21/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/21/11 Driller: Ernest Schuff Survey Unit: 4

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				
22	6.7		Alluvium	GW	
23	7.0	4.5'/5.0'			
24	7.3				
25	7.6				
26	7.9	25'-30'			brownish yellow (10YR6/6), clayey, f-c SAND w/some SA-SR gravel, wet, gr is SA-SR ≠ up to 3" in ⌀
27	8.2			SC	
28	8.5	4.0'/5.0'			
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8	5.0'/5.0'			
33	10.1				brownish yellow elastic SILT w/ some angular gr-sized Shale fragments, Weathered Rome Formation
34	10.4		Residuum	MH	
35	10.7				terminate Boring @ 35
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-069

Date Started: 6/21/11 Drilling Contractor: Boart Longyear Page 1 of 2
Date Completed: 6/21/11 Driller: Ernest Schutt Survey Unit: 4
Logged By: Rodney C Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	W.T. @ surface Alluvium		0.0'-6.5' brownish yellow (10YR 6/6), silty, fine-med.
2	0.6			SM	SAND (SM) w/ some SA-SR gravel
3	0.9	3.0'/5.0'			wet, mostly quartz sand, some coarse sand, alluvium
4	1.2				
5	1.5				
6	1.8	5'-10'			6.5'-10.0' brownish yellow, gravelly f-c SAND (SP)
7	2.1				wet, gr is SA-SR to up to 3" dia
8	2.4	4.5'/5.0'		SP	alluvium
9	2.7				
10	3.1				10.0'-20.0'
11	3.4	10'-15'		SM	yellowish brown (10YR 5/4) f-c silty SAND (SM) well graded (SW), some
12	3.7	5.0'/5.0'			SA-SR gravel, wet, mostly angular
13	4.0				coarse quartz sand, alluvium
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B069

Date Started: 6/21/11	Drilling Contractor: Boart Longyear	Page 2 of 2	
Date Completed: 6/21/11	Driller: Ernest Schutt	Survey Unit: 4	
Logged By: Rodney Clark	Equipment: Minisonic	Elevation: TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium		20'-24', yellowish brown, well-graded, GRAVEL, GW, wet, gr is SA-SR and up to 4" in Ø
22	6.7	4.5'/5.0'			
23	7.0				
24	7.3				reddish brown (5YR 5/4), lean, SILT w/ sand and angular shale fragments
25	7.6		Residuum	MH	some relict rock structure; Weathered Rome Formation
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-070

Date Started: 7/21/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1	
Date Completed: 7/21/11	**Driller:** Jeremy Tinsphe	**Survey Unit:** 4	
Logged By: Rodney Clark	**Equipment:** Mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	Strong brown (7.5YR 5/6), clayey f-c SAND w/ some SA-SR gravel. gravel up to 5" in Ø, mostly f-c quartz sand, wet, alluvium
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				7.5'-10.0
8	2.4		Residuum	MH	Brownish yellow (10YR 6/6) elastic SILT (MH) w/ angular gravel-sized shale fragments, some relict rock structure, Weathered Rome Formation
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B071

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/16/11 **Driller:** Jeremy Triepke **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-7.5'
1	0.3		Alluvium		dark gray, well graded GRAVEL (GW) moist, shale (FILL MATERIAL)
2	0.6	3.5'/5.0			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0	Adjacent pumping from lake		7.5'-10.0' strong brown (7.5YR 5/6) sandy, fat CLAY (CH), moist + trace, ang. gravel, FILL MATERIAL
8	2.4				
9	2.7		WT @ approx 10' bgs		
10	3.1	10'-15'			10.0'- yellowish brown (10YR 5/6) clayey f-c SAND (SC) w/ some SA-SR gravel, wet, alluvium
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			SAA except saturated
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-07H

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/16/11 **Driller:** Jeremy Trieple **Survey Unit:** 4

Logged By: Rodney Gish **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'			
21	6.4				23.5'-24.5'
22	6.7	5.0'			Weathered Rome Formation
23	7.0	5.0		MH	brownish yellow (10YR 6/6) elastic SILT
			Residuum		(MH) w/ some Angular Shale fragments
24	7.3				some relict rock structure
25	7.6		Bedrock		Shale, fissile, indurated, laminated
					Rome Formation
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-072

Date Started: 6/28/11	Drilling Contractor: Bourt Longyear	Page 1 of 2	
Date Completed: 6/28/11	Driller: Jeremy Trieske	Survey Unit: 4	
Logged By: S. Kelly	Equipment: mini sonic	Elevation: TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Fill	GP	0-5 dark olive gray (5Y 3/2) Angular
1	0.3	75%			GRAVEL w/ some sand and silt, moist
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10	Residual	SM	5-9 yellowish brown (10YR 5/6) si. f-m
6	1.8	100%	or Possible		SAND, v. moist, relict saprolitic structure
			Fill		
7	2.1				
8	2.4				
9	2.7		Alluvial	SP	9-13 yellowish brown (10YR 5/6) si f-c
10	3.1				SAND w/ gravel, moist to wet, gravel
		10-15			is SA to WR
11	3.4	100%			
12	3.7				
13	4.0			GP	13-15 yellowish brown (10YR 5/8) si. sa.
14	4.3				GRAVEL, wet/saturated
15	4.6	15-20		SP	15-24.5 yellowish brown (10YR 5/8) si.
16	4.9	100%			gravelly SAND, saturated, gravel is
					SA to WR
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-072

Date Started: 6/28/11 Drilling Contractor: Boart Longyear Page 2 of 2
Date Completed: 6/28/11 Driller: Jeremy Triepke Survey Unit: 4
Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25 100%	Alluvial	~~SM~~ SP	SD 6/28/11
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6		Residual	ML	24.5-25 yellowish brown (10.5YR 7/8) Boring terminated at 25ft bgs
26	7.9				
27	8.2				SILT with angular gravel (weathered Rome Fm.), moist
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-073

Date Started: 6/24/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1
Date Completed: 6/24/11	**Driller:** Ernest Schull	**Survey Unit:** 4
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4	Alluvial	SP	0-7 dk. yellowish brown, sl. gr. SAND,
1	0.3	100%			sl. mica, gravel is SA to WR, wet
2	0.6				
3	0.9				
4	1.2	4-9			
5	1.5	100%			
6	1.8				
7	2.1			GP	7-13.5 yellowish brown (10YR 5/8) sl. sa.
8	2.4				GRAVEL, wet, gravel is SA to WR up
					to 3" ϕ
9	2.7	9-14			
10	3.1	100%			
11	3.4				
12	3.7				
13	4.0				
					14.0
14	4.3		Residuum		13.5-14 yellowish brown (10YR 5/8) gravelly SILT,
					Boring terminated @ 14' bgs
15	4.6				wet, gravel is angular
16	4.9				(weathered Potomac Fm.)
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-074

Date Started: 6/17/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/17/11 Driller: Jeremy Tolephe Survey Unit: 4

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	2		brown (7.5YR 5/4), silty, fine-med SAND
1	0.3		WT @		well graded (SM/SW) w/some SA-SR gravel
2	0.6	4.0'/5.0'	Surface	SM/SW	up to 2" in Ø, wet
3	0.9				4'-15'
4	1.2		Alluvium		light olive brown (2.5Y 5/3) clayey f-c SAND
5	1.5	5'-10'		SC	(SC), wet, some SA-SR gravel, gr. up to 2" in Ø
6	1.8				yellowish brown (10YR 5/6) color change
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			increased gravel
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-22'
16	4.9				light olive brown well graded GRAVEL
17	5.2	1.5'/5.0'			gravel is SA-SR up to
18	5.5				4" in Ø (saturated)
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-074

Date Started: 6/17/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/17/11 **Driller:** Jeremy Triepke **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'	Alluvium		
21	6.4				
22	6.7	5.0' / 5.0	Residuum	MH	Strong brown (7.5YR 5/6), elastic SILT w/ angular gr-sized shale fragments, some relict rock structure
23	7.0				
24	7.3				
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-075

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/16/11 **Driller:** Jeremy Triephe **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5'
1	0.3		Alluvium	SC	brown (10YR 5/3), clayey fine SAND (SC) moist, few coarse sand, wet.
2	0.6	4.5/			
3	0.9	5.0			
4	1.2				
5	1.5				5-10'
6	1.8	5-10'			brown, clayey f-c SAND w/ some SA-SR gravel, gu up to 3" in 0-, wet
7	2.1				
8	2.4	5.0/			
9	2.7	5.0			
10	3.1				10'-21'
11	3.4	10'-15'			SAA except yellowish-brown (10YR 5/6) and saturated.
12	3.7				
13	4.0	4.5/			
14	4.3	5.0			
15	4.6				
16	4.9	15-20'			
17	5.2	5.0/			
18	5.5	5.0			
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-075

Date Started: 6/16/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/16/11 Driller: Jeremy Triepke Survey Unit: 4

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'			brownish yellow (10YR 6/8) elastic SILT (MH), moist, some org., gr-sized shale fragments some relict rock structure Weathered Rome Formation
22	6.7	4.5/	Residuum	MH	
23	7.0	5.0			
24	7.3		Bedrock		Shale (Rome Formation)
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-076

Date Started: 6/23/11 Drilling Contractor: Beart Longyear Page 1 of 2

Date Completed: 6/23/11 Driller: Ernest Scinta ~~Jeremy~~ RMC 6/23/11 Survey Unit: 4

Logged By: Rodney Cash Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	NFA surface		0.0'-5.0'
1	0.3			SM	brownish yellow (10YR 6/6) silty f-c SAND (SM) w/ SA-SR gravel, wet, mostly fine-medium quartz sand
2	0.6	4.0'/5.0'	Alluvium		
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-8.0'
6	1.8			MH	brown (10YR 4/3), sandy, elastic SILT (MH), some fine sand, little mica
7	2.1	5.0'/5.0'			
8	2.4				8.0'-10.6'
9	2.7			SM	yellowish brown (10YR 5/4), silty, fine SAND (SM), moist, some medium sand, trace coarse sand & gravel
10	3.1	10'-15'			10.0'
11	3.4			SC	yellowish brown, clayey fine SAND w/ some SA-SR gravel, wet, gr. is SA-SR, ∓ up to 3" in Ø
12	3.7	3.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B076

Date Started: 6/23/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/23/11 Driller: Ernest Schutt Survey Unit: 4

Logged By: Rodney Clift Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4			SC	
		4.8'			
22	6.7				
		5.0			
23	7.0				24'-25'
					Grayish yellow (10YR 6/6), elastic
24	7.3				SILT (MH) w/some angular gr. sized
			Residuum	MH	shale fragments, Weathered Rome Formation
25	7.6				Terminate Boring @ 25
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-077

Date Started: 6/28/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of**
Date Completed:	**Driller:** Jeremy Triepke	**Survey Unit:** 4	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4	flood-	SM	0-3 brown (7.5 5/4) si.cl.f-m SAND
1	0.3	100%	plain		moist to wet
2	0.6				
3	0.9		Alluvial	SP	3-6.5 dk brown (7.5YR 3/4) si.gr. SAND,
4	1.2	4-9			wet, gravel is SA to SR
5	1.5	100%			
6	1.8				
7	2.1			GP	6.5 strong brown (7.5YR 4/6) si.sa. GRAVEL
					gravel is
8	2.4				
9	2.7	9-14			
10	3.1	100%			
11	3.4				
12	3.7				
13	4.0		Residuum	ML	12.5-16 brownish yellow (10YR 6/8) SILT
					with angular gravel (weathered Bonne Fm.),
14	4.3	14-16			Saturated
15	4.6	100%			
16	4.9				Boring terminated @ 16ft bgs
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. B-078

Date Started: 6/29/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 6/29/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4			
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4	Alluvial	=@ ground	0-2 dk. yellowish brown (10YR 3/4) f-m SAND, some silt, some SA to SR
1	0.3	100%		SM-SP	gravel, wet
2	0.6			GP	2-8.9 yellowish brown (10YR 5/6) si. sa.
3	0.9				GRAVEL, wet/saturated
4	1.2	4.9			
5	1.5	75%			
6	1.8				
7	2.1				
8	2.4		Residual		WL
9	2.7				8.9-9.0 yellowish brown (10YR 6/8) SILT
10	3.1				w/angular gravel (weathered Rome Fm).
11	3.4				Boring terminated at 9.0 ft bgs
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-079

Date Started: 6/23/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/23/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'	WT @ surface Alluvium		0.0'-6.5' yellowish brown (10YR 5/6)
1	0.3			SM	silty fine-med. SAND, wet, few coarse sand, mostly quartz, trace mica.
2	0.6	3.5/4.0'			
3	0.9				
4	1.2				
		4'-9'			
5	1.5				
6	1.8				6.5'-12' brownish yellow (10YR 6/6) clayey f-c SAND some SA-SR gravel, wet, gravel is up to 4" in D
		4.5'/5.0'			
7	2.1				
8	2.4			SC	
9	2.7				
		9'-14'			
10	3.1				
11	3.4	4.5'/5.0			
12	3.7				12'-17.5' yellowish brown (10YR 5/6), clayey f-c SAND w/ some/abundant SA-SR gravel, wet/saturated
13	4.0				
14	4.3				
		14'-19'			
15	4.6				
16	4.9	4.5'/5.0'			
17	5.2				Weathered Rome Formation 17.5-19.0' brownish yellow (10YR 6/6) elastic SILT (MH), wet, some angular gravel-sized shale fragments
18	5.5		Residuum	MH	
19	5.8				Terminated Boring @ 19.0'
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-080

Date Started: 6/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2
Date Completed: 6/22/11 **Driller:** Ernest Schutt **Survey Unit:** 4
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	WT @ surface	Run SC	0.0'-6.5' yellowish brown (10YR 5/4), sandy fat CLAY, some fine sand, few med.-coarse sand, some mica alluvium
1	0.3				
2	0.6	4.5'/5.0'	Alluvium	CH	
3	0.9				grades to brown (7.5YR 4/3)
4	1.2				
5	1.5				brown clayey SAND (SC), moist
		5'-10'		SC	6.5'-15.0' strong brown (7.5YR 5/6), silty f-m SAND (SM), some coarse sand, wet, trace SA-SR gravel, mostly quartz sand, little mica, alluvium
6	1.8				
7	2.1			SM	
8	2.4	5.0'/5.0'			
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				increased gravel @ 14' gr up to 2" in ø
14	4.3				15.0'-23.0' yellowish brown (10YR 5/6), clayey f-c SAND w/ some SA-SR gravel, saturated, gr. is up to 4" in ø
15	4.6				
		15'-20'		SC	
16	4.9				
17	5.2	4.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-080

Date Started: 6/22/11	**Drilling Contractor:** Boart Longyear	**Page** 2 **of** 2	
Date Completed: 6/22/11	**Driller:** Ernest Schutt	**Survey Unit:** 4	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-23'			very pale brown (10YR 7/4), clayey, GRAVEL
21	6.4			GC	(GC), gr is SA-SR alluvium
		3.0'/3.0'			Weathered Rome Formation
22	6.7				very pale brown (10YR 7/4) elastic SILT w/ angular
			Residium	MH	gravel-sized shale fragments
23	7.0				Terminate Boring @ 23'
24	7.3				
25	7.6				
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-681

Date Started: 6/17/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/17/11 **Driller:** Jeremy Triepke **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5'	Alluvium		0.0'
1	0.3			CL	very dark grayish brown (10YR 3/2), lean clay w/sand (CL) saturated, some
2	0.6	3.5/5.0			SR-gravel up to 3" in Ø, organics
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8			SC	5.0'-10.5'
7	2.1	4.5/5.0			yellowish brown (10YR 5/3) clayey f-c SAND w/some SA-SR gravel gr up to 3" in Ø, wet, wet
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				10.5' light brown (7.5YR 6/3) to pale yellow (2.5Y 7/4), lean SILT
12	3.7	4.0/5.0	Residuum	ML	w/ang gr-sized shale fragments cemented residuum.
13	4.0				
14	4.3		Bedrock	GW	pale yellow, shale (hard drilling)
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-062

Date Started: 6/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/22/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: [illegible] **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5' 0'-4'	WTQ surface		0.0' – 5.0' 4.0 brownish yellow (10YR 6/6), strong brown (7.5YR 5/6), clayey f-m SAND w/ some coarse sand, few SUBR gravel, wet.
2	0.6				
3	0.9	3.5/5.0'	Alluvium		
4	1.2				4.0' to 13'
		4'-9'			SAA except: yellowish brown (10YR 5/4) & saturated
5	1.5	5'-6'			
6	1.8				
7	2.1	4.0/5.0			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4	9'-14'			
12	3.7	4.5/5.0'			13'-14' bgs brownish yellow (10YR 6/6), elastic SILT (MH) w/ some angular gravel - Sre shale fragments, weathered [illegible]
13	4.0		Residuum	MH	
14	4.3				Terminate Boring @ 14
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-083

Date Started: 6/21/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 6/21/11 **Driller:** Ernest Schutt **Survey Unit:** H
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	WT @ surface		0.0'-3.0'
1	0.3				pale olive (5Y 6/3), silty, well-graded
			Alluvium	SM/SW	f-m, SAND, wet, some coarse sand,
2	0.6	4.0'/5.0'			few SA-SR gravel, mostly quartz
					some mica
3	0.9				pale olive
				CH	3.0'-3.5' - sandy, fat CLAY (CH) most
4	1.2				some, sand, mostly fine.
					3.5'-7.5'
5	1.5			SM	reddish brown (5YR 5/4), silty, fine
		5'-10'			-med. Sand, some coarse sand,
6	1.8				few SA-SR gr, gr up to 2" in Δ
7	2.1	5.0'/5.0'			
					7.5'-17.5'
8	2.4				yellowish brown (10YR 5/6), clayey,
9	2.7			SC	f-c SAND, some SA-SR gravel
					wet, gr up to 4" in Δ, alluvium
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
					17.5'-20.0'
17	5.2	5.0'/5.0'			brownish yellow (10YR 6/6), elastic
18	5.5				SILT w/some angular grained
			Residuum	MH	SHALE fragments, some relict rock
19	5.8				structure, Weathered Rome Fm.
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B084

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 6/16/11 **Driller:** Jeremy Triplett **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** MiniSonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		0.0'-3.5 light yellowish brown (10YR 6/4), silty fine SAND, some coarse sand & SA-SR gravel, wet, mostly quartz sand
1	0.3			SM	
2	0.6	5.0'/5.0'			
3	0.9		WT @		
4	1.2		Surface	SC	yellowish brown (10YR 5/4), clayey fine-med. SAND (SC) w/ some coarse SA-SR gr, wet
5	1.5	5'-10'			5.0-8.0 yellowish red (5YR 4/6) fat CLAY w/ some sand, some fine sand few SA-SR gr
6	1.8				
7	2.1	5.0'/5.0		CH	8.0-13.5 yellowish red silty fine-med well-graded SAND (SW/SM), wet few SA-SR gravel, alluvium
8	2.4				
9	2.7			SW/SM	
10	3.1	10'-15'			
11	3.4				
12	3.7				
13	4.0	5.0'/5.0			
14	4.3			GW	well graded GRAVEL (GW), wet gr-fs SA-SR up to 3" in Ø
15	4.6				
16	4.9	15'-17.5' / 17.5	Fine Resid 6/16/11	MH	brownish yellow (10YR 6/6) elastic SILT w/ ang gr-sized Shale fragments
17	5.2	Rec	Residuum Bedrock	SW	Weathered Rare Fm Shale (Rare Fm)
18	5.5				Terminate Boring
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-085

Date Started: 6/17/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1	
Date Completed: 6/17/11	**Driller:** Jeremy Triepke	**Survey Unit:** 4	
Logged By: Rodney Clark	**Equipment:** Mi Misonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0.0'-10.5'
1	0.3				Light olive brown (2.5Y 5/3), clayey
					f-c SAND w/some SA-SR gravel
2	0.6	4.0'			wet, some gr up to 4" in d
		5.0			
3	0.9				
4	1.2				
5	1.5	5'-10'			SAA except saturated
6	1.8				
7	2.1	9.0'			
8	2.4	5.0'			
9	2.7				
10	3.1	10'-13.5'			
11	3.4				strong brown (7.5YR 5/6)
		3.5'			elastic SILT (MH) w/ang.
12	3.7	3.5	Residuum		gr.-sized shale, some relict
					rock structure, weathered
13	4.0				Rome Formation
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-08

Date Started: 6/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/24/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: S. Kelly **Equipment:** mini sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4	Alluvium	GP	0-11.5 yellowish brown (10YR 5/4)
1	0.3	100%			si. cl. ~~gravelly~~ sandy GRAVEL, sand
2	0.6				and gravel are fine to coarse SA to WR
3	0.9				(gravel up to 4" Φ)
4	1.2	4-9			
5	1.5	100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7	9-12			
10	3.1	100%			
11	3.4				
12	3.7		Rome		11.5-12 yellowish brown (10YR 5/8) SA, gr. SAND
13	4.0				Boring terminated/refusal @ 12 ft
14	4.3				Rome Fm. gravel is angular
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-087

Date Started: 6/23/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 6/23/11 Driller: Ernest Schutt Survey Unit: 4

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'	WT@surface		0.0'-9.0'
1	0.3		Alluvium		yellowish brown (10YR 5/6), clayey f-c SAND w/ some SA-SR gravel
2	0.6	3.6'/4.0'			wet. gr. is up to 4" in O. Alluvium
3	0.9				
4	1.2	4'-9'			
5	1.5	5'-10'			
6	1.8	Amc 6/23/11			
7	2.1				
8	2.4	5.0'/5.0'			
9	2.7				9.0'-13.0'
10	3.1	9'-14'			graded to brownish yellow (10YR 6/6)
11	3.4	4.5'/5.0'			
12	3.7				13.0'-16.0'
13	4.0				brownish yellow elastic SILT (MH) w/
14	4.3		Residuum		some angular gr-sized Shale, wet, some rock structure
		14'-16'			Weathered Rome Formation
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-088

Date Started: 6/16/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/16/11 **Driller:** Jaeny Triepke **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3		Alluvium	CH	yellowish brown (10YR 5/4), sandy fat CLAY (CH), moist, some fine-med sand few coarse sand & SA-SR gravel, wet, little mica, alluvium
2	0.6	2.5'/5.0'			
3	0.9		WT @		
4	1.2		Surface		
5	1.5	5'-10'			5.0'-
6	1.8				brownish yellow (10YR 6/6) SC clayey f-c SAND (SC) + w/ some SA-SR gravel, gr. up to 2" in Ø Saturated alluvium
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				Weathered Ranse Formation
14	4.3				14.0'-15.0' brownish yellow (10YR 6/6)
15	4.6		Residuum	MH	elastic SILT (MH), some ang. gr sand sla
					terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-089

Date Started: 6/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 6/22/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	WT @ Surface	SC	0.0' → 9.5' yellowish brown (10YR 5/4), clayey f-c SAND, wet, organic odor, some SA-SR gravel gr. up to 3", n-o
1	0.3				
2	0.6	4.5'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			SAA except saturated
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				9.5'-15' brownish yellow (10YR 6/6), elastic SILT (MH), moist, some angular gravel-sized shale, Weathered Rome Formation
10	3.1	10'-15'			
11	3.4		Residuum	MH	
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-090

Date Started: 6/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/22/11 **Driller:** Ernest Schutt **Survey Unit:** 4

Logged By: Rodney Clark **Equipment:** Minison, 2 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'	WT @ surface		0.0'-1.5' dark greenish gray (GLEY 1 4/10Y), clayey
1	0.3			SC	f-c SAND (SC) w/ some SA-SR gravel
2	0.6	3.5'/4.0'	Alluvium		wet to saturated, gr. up to 4" in D.
3	0.9				1.5'-4' SAA; color graded to yellowish
					brown (10YR 5/6)
4	1.2	4'-9'			4'-11.5' SAA and saturated
5	1.5				
6	1.8	5.0'/5.0'			
7	2.1				
8	2.4				
9	2.7	9'-14'			
10	3.1				
11	3.4				11.5'-14' type
		4.5'/5.0'			brownish yellow (10YR 5/6) elastic
12	3.7				SILT (MH) w/ some angular graded-
13	4.0		Residuum		sized shale fragments (Weathered
					Rome Formation
14	4.3				Terminate Boring @ 14'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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Appendix D.2

Soil Boring Logs

Survey Unit 6

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-750

Date Started: 8/8/11 Drilling Contractor: Board Longyear Page 1 of 2

Date Completed: 8/8/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: Rodney Cole Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.0'
1	0.3		FILL	GP/GC	brown (10YR 4/3), clayey, angular, poorly graded gravel (GP/GC)
2	0.6	4.5'/5.0'			wet, FILL MATERIAL
3	0.9			CH	brown (7.5YR 5/3) sandy fat CLAY (CH), moist, few angular
4	1.2				gravel, FILL
5	1.5		▽		
6	1.8	5'-10'			light yellowish brown (2.5Y 6/4)
7	2.1	4.5'/5.0'	Alluvium	SM/SW	silty, f-c well-graded SAND (SM/SW), moist, some-few SR
8	2.4				gravel, up to 2" in Ø
9	2.7				
10	3.1		▽		
		10'-15'			
11	3.4				11.0'
12	3.7	5.0'/5.0'		SC	brownish yellow (10YR 6/6) clayey, f-c SAND (SC) w/ some SA-SR gravel, wet, alluvium, gr. up to 4" in Ø
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-750

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/8/11 **Driller:** Jeremy Trieplne **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			21.0'
21	6.4				brownish yellow (10YR 6/6) elastic
22	6.7	5.0' / 50%	Residuum	MH	SILT (MH) w/some clay & angu
23	7.0				gravel sized shale fragments
24	7.3				some relict rock structure
25	7.6				Weathered Rome Formation
					Terminate Boring @ 25
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-751

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 8/8/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Fill ~~Alluvium~~ AMC	GC/GP	0.0'-2.0' brown (10YR 4/3), clayey, angular GRAVEL (GC), wet, FILL MATERIAL
2	0.6	5.0'/5.0'	8/8/11	—	poorly graded
3	0.9		FILL	CH	2.0'-5.5' brown (7.5YR 5/3), sandy, fat CLAY (CH), moist, few angular GRAVEL FILL MATERIAL
4	1.2				
5	1.5				5.5'-10.0'
6	1.8	5'-10'			light yellowish brown (2.5Y 6/4) silty, f-c SAND, well graded
7	2.1			SM/SW	(SW/SM), moist, some-few SR gravel, gr. up to 2" in ⌀
8	2.4	4.5'/5.0'	Alluvium		
9	2.7				
10	3.1		▽		Same as above except brown (7.5YR 5/3) little mica
11	3.4	10'-15'			
12	3.7				12.5'-31.0'
13	4.0	5.0'/5.0'		SC	brownish yellow (10YR 6/6) clayey f-c SAND w/some SA-SR gravel, wet, alluvium
14	4.3				gravel is up to 4" in ⌀
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = depositional formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-751

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/8/11 **Driller:** Jeremy Trieph **Survey Unit:** 6

Logged By: Rodney Cluy **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25			
21	6.4		Alluvium	SC	
22	6.7	4.5'/5.0			
23	7.0				
24	7.3				
25	7.6	25'-30'			Same as above except saturated
26	7.9				
27	8.2				
28	8.5	2.0'/5.0'			
29	8.8				
30	9.2				
		30'-35'			31.0'-35.0
31	9.5				brownish yellow (10YR 6/6) clayey elastic SILT (MH), moist, some angular gravel sized shale fragments, Weathered Rome Formation
32	9.8	4.5'/5.0'			
33	10.1		Residuum		
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0752

Date Started: 7/28/11 **Drilling Contractor:** Beart Logger **Page** 1 **of** ____

Date Completed: 7/28/11 **Driller:** Jeremy Triplett **Survey Unit:** 6

Logged By: Randy Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.0'
1	0.3		alluvium	CH	brown (10YR 5/3), sandy, fat CLAY (CH)
2	0.6	4.0'/5.0'	fill		w/ some SR gravel, moist, some
3	0.9				organics, FILL (Boring location was
					elevated appx 3' to accomodate drilling)
					3.0'- yellowish brown (10YR 5/6)
4	1.2			SC	clayey f-c SAND w/ some
5	1.5	5'-10'	alluvium		SA-SR gravel gr. is up to 3" in
					wet alluvium
6	1.8				
7	2.1	5.0'/5.0			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				12.0'-13.5'
12	3.7	4.5'/5.0'			dark yellowish brown (10YR 4/4), silty
13	4.0			SM/SW	fine-medium SAND some coarse
					sand few gravel, wet, well graded
14	4.3		Residuum	MH	13.5'-15.0' brownish yellow (10YR 6/6)
					elastic SILT w/ some angular gravel
					sized shale fragments, weathered
15	4.6				Terminate Boring @ Rony
					Formation
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-753

Date Started: 7/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/22/11 **Driller:** Jeremy Triepke **Survey Unit:** 6 7/22/11

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' - 14.0'
1	0.3		Alluvium	SC	brownish yellow (10YR 6/6), clayey f-c SAND (SC), wet, some SA-SR
2	0.6	2.5'/5.0'			gravel, gravel up to 3" in ø, mostly
3	0.9				f-c SAND
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				14.0' - 15.0' Weathered Rock f-m,
14	4.3		Residuum	MH	brownish yellow (10YR 6/6) elastic SILT (MH) w/ some SA-R gravel sized slate fragments
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-754

Date Started: 7/25/11 Drilling Contractor: Boart Longyear Page 1 of 1
Date Completed: 7/25/11 Driller: Joeman Triefke Survey Unit: 6
Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.5'
1	0.3				yellowish brown (10YR 5/8), clayey
			Alluvium	SC	f-c SAND (SC) w/some SA-SR
2	0.6	4.0			gravel + wet
		5.0'			2.5'-6.0' large boulder (gneiss)
3	0.9				1.5'/2.5' RQD. alluvium
4	1.2			Boulder	< Hard drilling 2.5' to 6.0' bgs
5	1.5				
6	1.8	5'-10'			6.0'-12.5'
					yellowish brown (10YR 5/6), clayey
7	2.1	3.5/			f-c SAND (SC) w/some SA-SR gravel
8	2.4	5.0'			gravel is up to 4" in Ø, wet
					to saturated
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				12.5'-15.0'
		9.0'			brownish yellow (10YR 6/6)
13	4.0	5.0			elastic SILT (MH) w/some
			Residuum		angular gravel-sized shale
14	4.3				fragments, Weathered Rome
					Formation
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-755

Date Started: ~~8/8/11~~ RMC 8/9/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: ~~8/8/11~~ RMC 8/9/11 Driller: Jeremy Troche Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'		GP	0.0'-0.5' poorly graded GRAVEL FILL, moist
1	0.3		Alluvium		0.5'-5.0'
2	0.6	4.5'/5.0'		CH	Strong brown (7.5YR 5/6), sandy fat CLAY (CH), moist, few org. to SR gravel, FILL MATERIAL
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-10.0 reddish yellow (7.5YR 6/6), silty well graded, f-c SAND (SM/SW) moist, few-some SA-SR gravel up to 2" in ⌀
6	1.8				
7	2.1	5.0'/5.0'		SM/SW	
8	2.4				
9	2.7				
10	3.1		▽		10.0'-22.0 yellowish brown (10YR 5/6), clayey f-c SAND (SC), wet w/some SA-SR gravel, gr up to 4" in ⌀
11	3.4	10'-15'		SC	
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-755

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/8/11 **Driller:** Jeremy Trieche **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4			SC	22.0'-25.0'
22	6.7	4.0'			Brownish yellow (10YR 6/6)
23	7.0	5.0'	Residuum	MH	clayey, elastic SILT (MH) w/
24	7.3				some angular gravel sized shale
					fragments, Weathered Rome Fm
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-756

Date Started: 8/3/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/3/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-6.0'
1	0.3		Alluvium	SM/SW	yellow (10YR 7/6), silty, f-c SAND w/ some SR gravel, well graded, moist
2	0.6	4.0'/5.0'			but up to 2" in G, alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				6.0'-19.5'
7	2.1	4.5'/5.0'		SC	yellowish brown (10YR 5/6) clayey, f-c SAND (SC) w/
8	2.4				some SA-SR gravel up to 3" in G, wet, alluvium
9	2.7				
10	3.1	10'-15'			
11	3.4				same as above except saturated
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				19.5'-20' brownish yellow (10YR 6/6) elastic SILT (MH) w/ some angular
20	6.1		Residuum	MH	gravel, Weathered Rome FM

Terminate Boring 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-757

Date Started: 7/26/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 7/26/11	**Driller:** Jeremy Triephe	**Survey Unit:** 6	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	8		0.0'-5.0'
1	0.3		Alluvium	SM	yellowish brown (10YR 5/6), silty, fine to medium SAND w/some coarse sand, few-SA-SR gravel, wet, little mica
2	0.6	4.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-15.0'
6	1.8			SC	yellowish brown, clayey f-c SAND (SC), w/some SA-SR gravel, wet, gravel is up to 3" in Ø
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.8	15'-20'			15.0'-20.0'
16	4.9				brownish yellow (10YR 5/6), clayey elastic SILT (MH) w/some angular gravel-sized shale fragments
17	5.2	3.5'/5.0'	Residual	MH	
18	5.6				Weathered Rone Formation
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-758

Date Started: 7/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 7/22/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5'			0.0'-10.0'
1	0.3		Alluvium	SC	reddish brown (5YR 5/4), clayey f-c SAND w/some SA-SR gravel
2	0.6	1.5'/5.0'			gravel up to 3" in Ø, wet to
3	0.9				saturated, alluvium
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			Attempted interval twice w/ flapper & auger bit, loose drilling
11	3.4	no			
12	3.7	recovery			Core barrel saturated
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-20'
16	4.9			SC	brownish yellow (10YR 6/6)
17	5.2	4.0'/5.0'			clayey f-c SAND (SC) w/some
18	5.5				SA-SR gravel
19	5.8				19.5'-25' pale yellow (2.5Y 7/4)
20	6.1		Bedrock	MH	elastic SILT (MH), w/some angular gravel sized, weathered Rome F

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-758

Date Started: 7/22/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 7/22/11 **Driller:** Jeremy Trisphe **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				
22	6.7	5.0'/5.0	Residuum	ML	
23	7.0				
24	7.3				
25	7.6				Terminated Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-759

Date Started: 7/28/11	**Drilling Contractor:** Boart longyear	**Page** 1	**of** 1
Date Completed: 7/28/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-7.5'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6)
2	0.6	3.5'/5.0'			clayey f-c SAND w/some
					SA-SR gravel, wet gravel
3	0.9				is 4" in Ø
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			7.5'-10.0'
8	2.4		Residuum	MH	pale yellow (2.5Y 7/4),
					clayey elastic SILT w/some
9	2.7				angular gravel sized slate fragments
					some relict rock structure
10	3.1				Weathered Rome Formation
					terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-760

Date Started: 7/28/11 Drilling Contractor: Beart Longyear Page 1 of 1

Date Completed: 7/28/11 Driller: Jeremy Trieplee Survey Unit: 6

Logged By: Rodney Clark Equipment: Minibonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3				light olive brown (2.5Y 5/4), clayey
2	0.6	2.0'/5.0'	Alluvium	SC	f-c SAND w/ some SA-SR gravel,
3	0.9				gravel is up to 3" in ⊖, wet
4	1.2				advanced casing to 5' & 10'
5	1.5				5.0'-6.5'
		5'-10'			yellowish brown (10YR 5/6)
6	1.8			GC	sandy, clayey GRAVEL (GC)
					wet, gravel is SA-SR alluvium
7	2.1	5.0'/5.0'			6.5'-9.0' brownish yellow (10YR 6/6)
8	2.4		Residuum	MH	elastic SILT (MH) w/ angular
9	2.7				gravel sized shale fragments
					Unweathered Rome Formation
			Bedrock	Gravel	9.0'-10.0'
10	3.1				brownish yellow SHALE
11	3.4				dry, Rome Fm.
12	3.7				Terminate Boring @ 10.0'
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-761

Date Started: 8/9/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/9/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.5'
1	0.3		Alluvium	SM	strong brown (7.5YR 5/6), silty f-m SAND, few SR gravel, moist, few organics
2	0.6				
		3.5'/5.0'			2.5'-3.5'
3	0.9		▽	SC	strong brown (7.5YR 5/6) clayey f-m SAND w/few SA-SR gravel,
4	1.2			CH	Moist.
5	1.5				3.5'-7.5' strong brown, sandy fat CLAY (CH) moist, some silt, slightly mottled.
		5'-10'			
6	1.8				
7	2.1				
		4.0'/5.0'			7.5'-14.0'
8	2.4				yellowish brown (10YR 5/6), clayey f-c SAND (SC) w/
9	2.7			SC	some SA-SR gravel, wet-saturated, go up to 4" into
10	3.1				alluvium
		10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				Weathered Rome Fm.
14	4.3				brownish yellow (10YR 6/6) clayey elastic SILT (MH) w/some angular
			Residuum	MH	gravel sized shale fragments
15	4.6				Terminate Boring @ 15
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0762

Date Started: 8/4/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/4/11 Driller: Jeremy Triepler Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3		FILL	GW	dark gray (10YR 4/1), well graded angular GRAVEL (GW) w/ some sand, dry, FILL MATERIAL
2	0.6	2.0			
3	0.9	5.0			
4	1.2				
5	1.5				5.0'-8.5'
		5'-10'			light yellowish brown (10YR 6/4)
6	1.8				sandy, fat CLAY (CH)
7	2.1	4.5		CH	few SR gravel, moist, FILL Material
		5.0			
8	2.4				8.5'-10.0'
9	2.7		Alluvium		reddish brown (5YR 4/3),
10	3.1			SM	silty, f-m SAND (SM), moist, few mica, few SR gravel
		10'-15'			10.0'-15.5'
11	3.4			SC	yellowish brown (10YR 5/6), clayey f-c SAND (SC), saturated, sand SA-SR gr, gr up to 4" in Q
12	3.7	4.5			
13	4.0	5.0			
14	4.3				
15	4.6				
		15'-20'			15.5' brownish yellow (10YR 6/6)
16	4.9			MH	elastic SILT (MH) w/ ang. gr-sized shale
17	5.2	3.0			
18	5.5	5.0			
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-763

Date Started: 7/28/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 7/28/11 **Driller:** Jeremy Turpke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0.0'-4.5' Light yellowish brown (10YR 6/4), clayey, f-c SAND (SC) w/ some SASL gravel, gravel is up to 3" in Ø, wet.
2	0.6	4.0'/5.0'			
3	0.9				
4	1.2				4.5'-22' Same as above except brownish yellow (10YR 6/6) & saturated
5	1.5				
6	1.8	5'-10'			
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-764

Date Started: 7/26/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 7/26/11 **Driller:** Jeremy Trieplee **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0.0'-10.0' Strong brown (7.5YR 5/6), clayey f-c SAND (SC), w/some SA SR gravel, gr is up to 3" in ⌀, wet
1	0.3				
2	0.6	2.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10.0'-20.0' same as above except saturated & yellowish brown (10YR 5/6)
11	3.4				
12	3.7				
13	4.0	4.5'/5.0'			
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-764

Date Started: 7/26/11	**Drilling Contractor:** Boart Longyear	**Page** 2	**of** 2		
Date Completed: 7/27/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6			
Logged By: Rodney Cole	**Equipment:** Minisonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-24'			29.0'-27.0' brownish yellow (10YR 6/6), clayey sandy GRAVEL (GC) wet, gravel is angular (slate) to rounded (quartzite)
22	6.7	3.5'/4.0'			
23	7.0				
24	7.3	24'-29'			
25	7.6				
26	7.9	5.0'/5.0'			27.0'-29.0' brownish yellow (10YR 6/6), elastic SILT (MH), w/some angular gravel-sized shale fragments, Weathered Rome Formation
27	8.2				
28	8.5		Residuum	MH	
29	8.8				Terminated Boring @ 29
30	9.2	~~29-33'~~	Rinc 7/26/11		
31	9.5				
32	9.8				
33	10.1				
34	10.4		Rinc 7/26/11		
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-765

Date Started: 7/25/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/25/11 **Driller:** ~~Bill~~ RMC Jeremy Triephe **Survey Unit:** 6

Logged By: Kelly Clark **Equipment:** Minidom 2 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-9.5'
1	0.3		▽	SC	brown (7.5YR 5/4) clayey f-c SAND (SC) w/ some SA-SR gravel wet, gr is up to 3-4" in ø
2	0.6		Alluvium		
		4.5'/5.0'			
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
		5.0'/5.0'			
8	2.4				9.5'-15'
9	2.7				yellow (10YR 6/6) lean SILT w/ angular gravel sized shale fragments dry, some relict rock structure
10	3.1				
		10-15'			
11	3.4		Residuum	ML	Weathered Rome Formation
12	3.7				
13	4.0	5.0'/5.0'			
14	4.3				
15	4.6				Terminate Boring to 15
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING B-766 ~~B-776~~ RMC 8/18/11

Date Started: 8/1/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/1/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0.0'-4.0' reddish brown (5YR 4/3), clayey f-c SAND few SR gravel up to 2" in ⊖.
1	0.3				
2	0.6	5.0'/5.0'			
3	0.9				
4	1.2				4.0'-9.5' yellowish brown (10YR 5/6), clayey f-c SAND w/ some SA SR gravel, wet-saturated, gr. is up to 3" in ⊖
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				9.5'-11.0' yellowish brown, clayey elastic SILT w/ SA-A gravel, some slate, some quartzite & gneiss SR cobble
10	3.1			ML	
11	3.4	10'-15' 3.0'/3.0	Residuum	CH	11.0'-13.0' brown/yellow (10YR 6/8) silty fat CLAY (CH) w/ some ang gravel-sized shale fragments ← Weathered Rome Fm
12	3.7				
13	4.0				Terminate Boring @ 13.0'
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-767

Date Started: 8/9/11 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.0'
1	0.3				strong brown (7.5YR 5/6) clayey
2	0.6	3.0'	Alluvium	SC	f-c SAND w/ some SA-SR gravel
					gr. up to 2" in ⌀, moist-wet
3	0.9	5.0'			3.0'-5.0'
4	1.2			CH	strong brown, sandy fat CLAY
					(CH) moist, few SR gravel
5	1.5	5'-10'			5.0'-8.0'
6	1.8			SM/SW	yellowish brown (10YR 5/4), silty
					well-grade f-c SAND (SM/SW)
7	2.1	4.5'			wet, some-few SA-SR gravel
8	2.4	5.0'			8.0'-12.0'
9	2.7			SC	yellowish brown clayey f-c SAND
					w/ some SA-SR gr., gr. up to
10	3.1	10'-15'			4" in ⌀, wet - alluvium
11	3.4				
12	3.7	4.5			12.0'-15.0' Weathered Rome Fm,
			residuum	MH	very pale brown (10YR 7/4)
13	4.0	5.0			clayey elastic SILT w/ any
					gravel-sized shale
14	4.3		Saprolite Bedrock		13.0'-15'
					Rome Fm. f/S shale
15	4.6				Terminate Boring 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0768

Date Started: 8/3/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/3/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Run		0.0' → 4.0'
1	0.3		Alluvium		dark gray (10YR 4/1), well graded
2	0.6		Fill	GW	sandy angular GRAVEL (GW)
		3.0/5.0			dry, shale fill material
3	0.9				
4	1.2				4.0' → 9.5'
5	1.5	5'-10'		CH	light yellowish brown (10YR 6/4)
6	1.8				sandy, fat CLAY (CH), few
					SR gravel, moist to wet,
					fill material
7	2.1	5.0/5.0			
8	2.4				9.5' → 11.0'
9	2.7				yellowish brown (10YR 5/6), clayey
10	3.1	10'-15'	Alluvium	SC	fine SAND (SC), wet, some SR
					SR gravel, mostly f-m sand
11	3.4				11.0'-16.0'
12	3.7	3.0/5.0		GW	yellowish brown, well graded
					GRAVEL w/ some, gr. is up to 4", no
13	4.0				wet, gravel is sub round sub angular
14	4.3				
15	4.6	15'-20'			16.0'-20.0'
16	4.9				brownish yellow (10YR 6/6),
17	5.2		Residuum	MH	elastic SILT (MH) w/ some
					angular gravel-sized shale
18	5.5				fragments, Weathered Rome Fm.
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-769

Date Started: 8/9/11 Drilling Contractor: Beart Longyear Page 1 of 1

Date Completed: 8/9/11 Driller: Jeremy Trefton Survey Unit: 6

Logged By: Rodney Clark Equipment: Mini-sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	FILL		0.0'-5.0' olive gray (5Y 4/2), poorly graded Shale gravel, moist, some f-c sand
2	0.6	3.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'	FILL		5.0'-7.0' light yellowish brown (10YR 6/4) sandy, fat CLAY (CH) moist mottled
6	1.8				
7	2.1	5.0'/5.0'			7.0'-10.0' silty ~~clayey~~ f-m SAND (SC), moist, few SR gravel, little mica well graded
8	2.4		Alluvium	SM/SW	
9	2.7				
10	3.1	10'-15'			10.0'-15.0' grayish brown (10YR 5/2), clayey f-c SAND (SC) w/some SA-SR gravel, gr up to 3" ino, wet, alluvium
11	3.4			SC	
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				15.0'-17.5' Weathered Bone Formation light yellowish brown (10YR 6/4) clayey elastic SILT (MH) w/ some angular gravel-sized shale fragments
15	4.6	15'-17.5'	Residuum	MH	
16	4.9	2.5'/2.5			
17	5.2				Terminate Boring 17.5
18	5.5				
19	5.8				
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-770

Date Started: 7/29/11 **Drilling Contractor:** Heart Longyear **Page** 1 **of** 1

Date Completed: 7/29/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.5'
1	0.3		Alluvium	CH	brown (7.5YR 5/4), ~~clayey~~ sandy fat CLAY (CH) w/some SA-SR gravel, gravel is up to 4" in ⌀, wet, alluvium
2	0.6	4.5'/5.0'			sand is f-c
3	0.9				3.5'-15.0
4	1.2			SC	strong brown (7.5YR 5/6) clayey f-c SAND w/some SA-SR gravel, gr. up to 4" in ⌀ wet
5	1.5	9'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			light brown (7.5YR 6/4), elastic SILT w/some angular gravel sized shale fragments
16	4.9			MH	Weathered Rome Formation, some slickrock structure
17	5.2	5.0'/5.0'	Residuum		
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-771

Date Started: 8/1/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/1/11 Driller: Jeremy Trieple Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/4), clayey f-c SAND w/ SA-SR gravel,
2	0.6	4.5'/5.0'			gr is up 4" in ⊖, wet, alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-9.5 same as above except saturated
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				9.5'-10.0' brownish yellow (10YR 6/6), elastic
10	3.1		Residuum	MH	SILT w/ avg. gr. sized shale fragments, dry, some relict rock structure, Weathered
11	3.4				Rome Formation
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-772

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Trepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	00'-5.0'	Alluvium	SM	0.0'-5.0' light yellowish brown (10YR 6/4), silty f-c SAND w/ some SA-SR gravel, moist, alluvium, gr up to 2-3" in O.
2	0.6	3.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'		SC	5.0'-16.5' yellowish brown (10YR 5/6) clayey f-c SAND (SC) w/ some SA-SR gravel, moist, gr up to 3" in O
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			same as above but saturated
11	3.4				
12	3.7	3.0'/5.0'			
13	4.0				
14	4.3				16.5'-17.5' Weathered Rome F-M brownish yellow (10YR 6/6), clayey plastic SILT (MH) w/ some angular gravel-sized slate
15	4.6	15'-17.5'			
16	4.9				
17	5.2		Residuum	MH	Terminate Boring @ 17.5'
18	5.5				
19	5.8				
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-773

Date Started: 8/3/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1	
Date Completed: 8/3/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	FILL	GW	dark gray (2.5Y 5/1), cl. sandy GRAVEL, well graded, wet
2	0.6	4.5'/5.0'			(GW) gr is angular Shale dry
3	0.9				FILL MATERIAL
4	1.2				
5	1.5				advance casing @5' 5.0'-7.0'
6	1.8	5'-10'		SM	olive yellow (2.5Y 6/3), silty f-m SAND (SM) w/ some angr to SR gravel, moist, FILL
7	2.1				7.0'-16.0'
8	2.4	4.5'/5.0'	Alluvium	SC	light yellowish brown (10YR 6/4) clayey, fine-coarse SAND (SC), wet, some SA-SR gravel, gravel up to 3" in Ø
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	4.5'/5.0'			light olive brown (2.5Y 5/4), clayey f-c SAND w/ some SA-SR gravel wet, alluvium, gr. up to 3" in Ø
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'			16.0'-20.0'
17	5.2				brownish yellow (10YR 6/6), elastic SILT (MH) w/ some angular gravel
18	5.5		Residuum	MH	sized shale fragments, Weathered Rome Formation
19	5.8				
20	6.1				Terminate Boring @ 20.0

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-774

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Kriepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	FILL	GP/GC	dark gray (2.5X 4/1), clayey GRAVEL poorly graded (GP/GC), moist, some, mostly argil or 2" to 3" gr. sized shale fragments, FILL 4.0'-5.0'
2	0.6	4.5/5.0			
3	0.9				
4	1.2			SM	brownish yellow (10YR 6/6), silty f-c SAND w/few SR gr moist 5.0'-7.5'
5	1.5	5'-10'			
6	1.8			CH	brownish yellow, sandy fat CLAY mottled, moist, few SR gravel 7.5'-10.0'
7	2.1	5.0/5.0			
8	2.4		Alluvium	SM/SW	brown (7.5YR 5/4), silty f-c SAND (SM) well-graded (SW), wet, some SA-SR gravel, alluvium 10.0'-16.0'
9	2.7				
10	3.1	10'-15'			yellowish brown (10YR 5/6) clayey f-c SAND (SC), w/ some SA-SR gravel, gr up to 4" in ⊖, wet, alluvium
11	3.4				
12	3.7	4.5/5.0			
13	4.0				
14	4.3				
15	4.6	15'-18'			16.0'- Weathered Rome Formation brownish yellow (10YR 6/6) clayey, elastic SILT (MH) moist some arg. gr-sized shale, Terminate Boring @ 18'
16	4.9				
17	5.2	3.0/3.0	Residuum	MH	
18	5.5				
19	5.8				
20	6.1				

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SOIL BORING RECORD

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BORING NO. B-775

Date Started: 8/3/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 8/3/11	**Driller:** Jeremy Irieplee	**Survey Unit:** 6	
Logged By: Rodney Clark	**Equipment:** Mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	▽		0.0'-2.5' light yellowish brown (10YR 6/4), sandy fat CLAY (CH) w/ few SR gravel, fine-medium sand, few c. sand, mottled
2	0.6	5.0'	Alluvium	CH	
3	0.9	5.0'			2.5'-5.0 yellowish brown (10YR 5/4), silty fine-medium SAND (SM) well-graded (SW), few SR gravel.
4	1.2			SW/SW	
5	1.5	5'-10'			5.0-9.5' yellowish brown (10YR 5/6), clayey f-c SAND, w/ some SA-SR gravel not gr. up to 3" in D, alluvium
6	1.8				
7	2.1	5.0'		SC	
8	2.4	5.0'			
9	2.7				9.5'-10.0' Weathered Rome Formation brownish yellow (10YR 6/8) elastic SILT (MH) w/ some angular gravel sized slab fragments, some relict rock structure
10	3.1		Residuum	MH	Terminate Boring @ 10.0
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-776

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Trieche **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-5.0'
1	0.3			SC	yellowish brown (10YR 5/4) clayey
2	0.6	4.5/5.0'	Alluvium		f-c SAND (SC) moist, some SA-SR gravel gr. up to 3" in alluvium
3	0.9				
4	1.2				
5	1.5				5.0'-~~14~~.0' RMC 8/9/11 14.0'
		5'-10'			Same as above except
6	1.8				saturated
7	2.1	3.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
					14.0'-15.0'
14	4.3		Residuum	MH	brownish yellow (10YR 6/6) elastic
15	4.6				SILT w/ some angular gravel sized shale fragments, weathered
16	4.9				Rome Formation
17	5.2				Terminate Boring @ 15.0'
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-777

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.5'
1	0.3				dark gray (7.5YR 4/1) well-
2	0.6	4.5'/5.0'	Alluvium	GW	graded GRAVEL (GW); shale material, FILL MATERIAL
3	0.9				2.5'-5.0' pale yellow (2.5Y 7/4)
4	1.2			SM	silty, f-c SAND (SM), w/ some SA-SR gravel, wet, mostly quartz f-m SAND
5	1.5	5'-10'			
6	1.8				5.0'-15.0'
7	2.1	4.5'/5.0'		SC	yellowish brown (10YR 5/6) clayey f-c SAND (SC) w/
8	2.4				some SA-SR gravel, wet.
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-20'
16	4.9		Residuum		brownish yellow (10YR 6/6) clayey, elastic SILT (MH)
17	5.2				w/ some angular gravel sized slate fragments
18	5.5				Weathered Rome Formation
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-778

Date Started: 8/5/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/5/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.0'
1	0.3				gray (10YR 5/1), well-graded
				GW	GRAVEL (GW), gr is Shale
2	0.6	4.5'/5.0'	FILL		fill, angular, dry
3	0.9				3.0'-
					strong brown (7.5YR 5/6), silty,
4	1.2			SM	f-c SAND, some-few SR
					gravel, moist, FILL Material
5	1.5				B.S
		5'-10'			same as above except
6	1.8				brown (7.5YR 3/4) & wet
7	2.1				
		4.0'/5.0'	Alluvium		
8	2.4				
9	2.7				
10	3.1				brownish yellow (10YR 6/6)
		10'-15'			clayey f-c SAND (SC) w/some
11	3.4			SC	SA-SR gravel, wet, gr is
					up to 3" in @ alluvium
12	3.7	5.5'/5.0'			
13	4.0				
14	4.3				
15	4.6				Weathered Rome Formation
		15-19			light yellowish brown (10YR 6/4)
16	4.9			ML	lean SILT w/angular gravel sized
			Residuum		shale fragments (Weathered
17	5.2				Rome Formation)
18	5.5				
19	5.8				Terminate Boring @ 19'
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-779

Date Started: 7/25/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/25/11 **Driller:** Jeremy Triephe **Survey Unit:** 6

Logged By: Rodney M Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvium	SM/SW	silty, fine-medium SAND, moist, well-graded, some mica, few coarse sand & little SA-SR gravel, alluvium
2	0.6	4.5/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0/5.0'			7.5'-14.0'
8	2.4			SC	brownish yellow (10YR 5/6) clayey f-c SAND w/ some SA-SR gravel
9	2.7				wet, gr. is up to 3" in ⊖
10	3.1	10'-15'			
11	3.4				
12	3.7		Rmc 7/25/11		
13	4.0				
14	4.3				14.0'-15' brownish yellow, elastic
15	4.6		Residuum	MH	SILT (MH) w/ some angular gravel, shale, weathered Conn. formation
16	4.9				
17	5.2				terminate boring @ 15'
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-780

Date Started: 8/2/11 **Drilling Contractor:** Brart Langley **Page** 1 **of** ____

Date Completed: 8/2/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	▽		0.0'-3.0'
1	0.3			SC	yellowish brown (10YR 5/6), clayey f-m SAND, moist, few SR gravel
2	0.6	4.0'/5.0'	Alluvium		3.0'-5.0' reddish brown (5YR 4/3), silty f-m SAND, moist, well graded, few SR gravel
3	0.9				
4	1.2			SM	
5	1.5				5.0'-11.0'
		5.0'-10'			
6	1.8				yellowish brown, clayey c-c SAND (SC) w/some
7	2.1	5.0'/5.0'		SC	SA-SR gravel (gr. to up to 4" in ⌀), wet, alluvium
8	2.4				
9	2.7				
10	3.1				
		10'-13'			11.0'-13.0' Weathered Rome Formation
11	3.4				(brownish yellow (10YR 6/6),
12	3.7	3.0'/3.0'	Residuum	MH	clayey, elastic SILT, MH, wet, some angular gravel-sized shale fragments
13	4.0				Terminate Boring @ 13'
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0781

Date Started: 8/10/11	Drilling Contractor: Boart Longyear	Page 1 of 1	
Date Completed: 8/10/11	Driller: Jeremy Triepke	Survey Unit: 6	
Logged By: S. Kelly	Equipment: mini Sonic	Elevation: TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	FILL	GP	0-1 dk yellowish brown (10YR 4/4) sa. si. GRAVEL, moist
1	0.3		Alluvial	SP-GP	1-15.5 brownish yellow (10YR 6/8), m-c SAND w/ gravel, v. sl. moist to yellowish brown (10YR 5/8) to sa. si. GRAVEL
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-16.5 100%	Residual Perne	ML-GP	15.5-16.5 yellowish brown (10YR 5/8) SILT w/ angular gravel (up to 1" ⌀) weathered limestone/dolomite Perne Fm. Refusal @ 16.5' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-782

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' – 12.0'
1	0.3				yellowish brown (10YR 5/6), clayey
2	0.6	4.5'/5.0'	Alluvium	SC	f-c SAND (SC) w/ some SA-SR gravel, moist, gravel is up to 4" in Ø
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				12.0-15.0
12	3.7				Brownish yellow (10YR 5/6), clayey
13	4.0		Residuum	MH	elastic SILT (MH) some ang.
14	4.3				gravel-sized shale fragments
15	4.6				Weathered Rome Formation Terminate Boring @ 15
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = depositional/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-783

Date Started: 8/3/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/3/11 **Driller:** Jeremy Troephe **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	CH	0.0'-2.5' brown (7.5YR 4/4), sandy fat CLAY (CH), w/some SR gravel, wet, few organics fine-medium sand w/ some c. sand,
1	0.3				
2	0.6	4.5'/5.0'			
3	0.9				2.5'- yellowish brown (10YR 5/6) clayey, f-c SAND w/some SA-SR gravel, wet, gr is up to 3" in, alluvium
4	1.2			SC	
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				11.5'-13.5' Weathered Rome Formation pale yellow (2.5Y 7/4), lean SILT (ML) w/angular gravel sized shale fragments, moist-dry, some relict rock structure
12	3.7				
13	4.0		Residuum	ML	
14	4.3		Bedrock		13.5'-15.0' Rome Formation Shale, fissile, laminated, severely moderately weathered
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-784

Date Started: 8/2/11 Drilling Contractor: Boart Longyear Page 1 of

Date Completed: 8/2/11 Driller: Jeremy Triepho Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0.0'-5.0' yellowish brown (10YR 5/6), clayey f-c SAND (SC), wet, some SA-SR gravel, gravel is up to 4" in Ø
1	0.3				
2	0.6	4.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-18.0' same as above except saturated
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8		Residuum	MH	
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-785

Date Started: 7/25/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/25/11 **Driller:** Jeremiah Triophe **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	▽		0.0'-10.0'
1	0.3		Alluvium		light yellowish brown (10YR 6/4), clayey f-c SAND w/ some SA-SR gravel, wet, gravel is up to 3" in a
2	0.6	4.5'/5.0'			alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	3.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10.0'-14.5' same as above except brownish yellow (10YR 6/6) and saturated
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				brownish yellow, clayey elastic SILT w/ angular gravel-sized shale fragments
14	4.3				Weathered Rock formation
15	4.6		Residuum		Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-786

Date Started: 7/22/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 7/22/11 **Driller:** Boart Longyear **Survey Unit:** 6
Logged By: Kelly Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					0.0' to 11.0'
1	0.3	0'-5'	Alluvium	SC	yellowish brown (10YR 5/4) clayey f-c SAND (SC) w/some 5A-5R gravel, wet, alluvium, gravel up to 4" in ⊖
2	0.6	4.5'/5.0			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-14'			
11	3.4				11-14' brownish yellow (10YR 6/6) elastic SILT w/some angular gravel sized slate fragments. Weathered Rome Formation
12	3.7	4.0'/4.0	Residuum	MH	
13	4.0				
14	4.3				Terminate Boring @ 14'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0787

Date Started: 8/10/11	Drilling Contractor: Boart Longyear	Page 1 of 1
Date Completed: 8/10/11	Driller: Jeremy Triepke	Survey Unit: 6
Logged By: S. Kelly	Equipment: mini Sam. C	Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	FILL	GP	0-1.5 brown (7.5YR 4/3) sa. GRAVEL and gravelly SAND, sl. moist, gravel is angular to SA
21					
22			Residual (floodplain)	ML	1.5-4 v. dk. brown (7.5YR 2.5/3) SILT little sand, moist
23					
24			Alluvial	GP-SP	4-7 lt. yellowish brown (10YR 6/4) gr. SAND to sa. GRAVEL, little to some silt, moist to wet, gravel is SA to rounded up to
25		5-10 100%			
26					
27					7- SAA but yellowish brown (10YR 5/8)
28					
29					
30		10-15 100%			
31					
32					
33					
34					
35		15-20 15-20 100%	Residual Pane	ML	15.5-20 yellowish brown (10YR 5/8) SILT w/ angular gravel, wet, weathered Pane Fm.
36					
37					
38					
39					
40					Boring terminated @ 20' bgs

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-788

Date Started: 8/4/11 **Drilling Contractor:** Beard Langquist **Page** 1 **of** ____

Date Completed: 8/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' –
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6)
2	0.6	4.0'/5.0'			clayey, f-c SAND (SC), w/some
3	0.9				SR gravel, gr. is SA-SR # up to 4"
4	1.2				in O.
5	1.5	5'-10'			grades to very pale brown 10YR 7/4
6	1.8				5.0'-10.0' same as above yellowish
7	2.1	4.1'/5.0'			brown
8	2.4				
9	2.7				
10	3.1				10.2' Rome Fm. Shale, bedrock
		10'-11'	Bedrock	GW	laminated, light gray (10YR 7/2)
11	3.4	1.0'/1.0'			Terminate Boring @ 11.0'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-789

Date Started: 8/4/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'–
1	0.3				light yellowish brown (10YR 6/4)
				SM	silty f-c SAND, w/ some SA-SP
2	0.6	1.5'/5.0'	Alluvium		gravel, gr is up to 2" in ⊖, wet
					alluvium
3	0.9				
4	1.2				
5	1.5	5'-7'			Same as above except:
					light olive brown (2.5Y 7/4)
6	1.8	1.5'/2.0'			
7	2.1				yellowish brown (10YR 5/4), clayey f-c
		7'-10'			SAND (SC) w/ some SR gravel, alluvium
8	2.4			SC	wet
		2.0'/3.0'			9.0'-10.0' Weathered Rome Formation
9	2.7				yellowish brown (10YR 5/6), clayey
			Residuum	MH	Elastic SILT (MH) w/ some angular gr.
10	3.1				Terminated Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1236

BORING NO. B-0790

Date Started: 8/10/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 8/10/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5 100%	Alluvial	SP-GR	0-8 yellowish brown (10YR 5/8) gr. SAND w/ silt to sa. GRAVEL. gravel is angular to SR up to 3" ϕ, moist to wet
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4		Residual	GP	8-10 lt. gray (10YR 7/1) angular gravel w/ some silt, weathered some Fm. (limestone/dolomite)
9	2.7				
10	3.1				Boring Terminated @ 10' bgs
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-791

Date Started: 8/2/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/2/11 Driller: Jeremy Trapke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-15.5'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6), clayey f.-c. SAND (SC) w/ some SA-SR gravel
2	0.6	3.5'/5.0'			gravel is up to 2" in D, wet
3	0.9				alluvium
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15.5'-20.0'
16	4.9		Residuum	MH	brownish yellow (10YR 6/6), elastic SILT (MH) w/ some angular gravel-sized shale fragments
17	5.2	5.0'/5.0'			Weathered Rome Formation
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-792

Date Started: 8/2/2011 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/2/2011 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-11.0'
1	0.3				yellowish brown (10YR 5/4), clayey
			Alluvium	SC	f-c SAND (SC) w/ some SA-SR
2	0.6	4.0'/5.0'			gravel, gravel is up to 4" in ø.
					moist to wet, alluvium
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			11.0'-15.0'
11	3.4				brownish yellow (10YR 6/6) clayey
					elastic SILT (MH), moist some
12	3.7	5.0'/5.0'			angular gravel-sized shale fragments
			Residuum	MH	some relict rock structure.
13	4.0				
14	4.3				
15	4.6				Terminate Boring
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-793

Date Started: 8/1/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/1/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-6'	Alluvium	SC	0.0'-6.5' light yellowish brown (10YR 6/4), clayey f-c SAND (SC) w/some SA-SR gravel cont. alluvium gravel is up to 4" in ø
1	0.3				
2	0.6	4.0'/5.0'			
3	0.9				
4	1.2				
5	1.5	5-10'			
6	1.8				6.5'-10.5' Same as above except brown (7.5YR 5/4) & saturated
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10.5'-15.0'
11	3.4				light gray (10YR 7/1) clayey elastic SILT (MH-1), some angular gravel sized ~~shale~~ dolomite fragments RMC 8/2/11
12	3.7	5.0'/5.0'	Residuum	MH	Weathered Rome Formation
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0794

Date Started: 8/10/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/10/11 **Driller:** Jeremy Trielke **Survey Unit:** 6

Logged By: S. Kelly **Equipment:** minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-1 v. dk. gray (GLEY1 3/N) & black (GLEY1 2.5/N) sa. GRAVEL
1	0.3	100%		ML	1-4 yellowish brown (10YR 5/8) cl. SILT, moist
2	0.6				
3	0.9				
4	1.2		Residual/ Alluvial	SP	4-7 yellow (10YR 7/8) f-c SAND, sl. moist, tr. gravel
5	1.5	5-10			
6	1.8	100%			
7	2.1			ML	7-8 black (GLEY1 2.5/N) cl. SILT, moist, organic odor
8	2.4			SP	8-15 dk. greenish gray (GLEY1 4/1 10Y) M-c SAND w/ some silt, clay & gravel (rounded), moist to wet
9	2.7				
10	3.1		D		sub
		10-15			
11	3.4	15%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20	Residual Pane	ML	15-20 yellowish brown (10YR 5/8) SILT w/ some angular gravel, wet, Pane Formation weathered
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				Boring terminated @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0794

Date Started: 8/10/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/10/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: S. Kelly **Equipment:** minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	GP	0-1 v. dk. gray (GLEY1 3/N) & black (GLEY1 2/N) sa. GRAVEL
1	0.3	100%		ML	1-4 Yellowish brown (10YR 5/8) cl. SILT, moist
2	0.6				
3	0.9				
4	1.2		Residual/ Alluvial	SP	4-7 Yellow (10YR 7/8) f-c SAND, sl. moist, tr. gravel
5	1.5	5-10			
6	1.8	100%			
7	2.1			ML	7-8 black (GLEY1 2.5 N) cl. SILT, moist, organic odor
8	2.4			SP	8-15 dk greenish gray (GLEY1 4/1 10Y) M-c SAND w/ some silt, clay & gravel (rounded), moist to wet sub.
9	2.7				
10	3.1		▽		
		10-15			
11	3.4	15%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20	Residual Rome	ML	15-20 - Yellowish brown (10YR 5/8) SILT w/ some angular gravel, wet, Rome Formation weathered
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				Boring terminated @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-79S

Date Started: 8/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/9/11 **Driller:** Jeremy Tringle **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.0'
1	0.3			CH	very dark gray (5Y 3/1), sandy fat CLAY (CH), few SAND & GR moist, gr 15 up to 2" in Ø
2	0.6		Alluvium		
		4.0'/5.0			3.0'-5.0'
3	0.9				light yellowish brown (2.5Y 6/4) clayey f-c SAND (SC) w/ some SAND gravel, moist, gr up to 4" in Ø, alluvium
4	1.2			SC	
5	1.5	5'-10'			5.0'-11.0'
6	1.8				same as above except brownish yellow (10YR 6/6)
7	2.1	4.5'/5.0			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				11.0'-15.6'
12	3.7	5.0'/5.8	Residuum	MH	brownish yellow (10YR 5/6) clayey elastic SILT (MH), moist, some angular gravel sized shale fragments Weathered Rome Formation
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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B-796

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. ~~B-792~~ RMC 8/4/11

Date Started: 8/4/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/4/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.0'
1	0.3				brown (7.5YR 4/2), clayey
			Alluvium	SC	f-m SAND w/ few SR gravel,
2	0.6	4.5/5.0'			moist, few coarse sand, RMC
					2.0'-4.0 light yellowish brown
3	0.9				(10YR 6/4), silty, f-c SAND w/
				SM	some SA-SR gravel, gr. is up to
4	1.2				3" in Ø
5	1.5			SC	4.0'-6.0'
		5'-10'			
6	1.8				light olive brown (2.5Y 5/4),
					clayey, f-c SAND (SC) w/some
7	2.1	4.5/5.0'			SA-SR gravel, wet, gravel is
8	2.4				up to 4" in Ø
9	2.7				6.0'-15.5' Same as above except
					brownish yellow (10YR 6/6)
10	3.1				~~clayey, f-c SAND~~ RMC 8/4/11
		10'-15'			
11	3.4				
12	3.7				
13	4.0	4.5/5.0'			
14	4.3				
15	4.6				15.5'-20.0'
16	4.9	15'-20'			brownish yellow (10YR 6/8)
					elastic SILT (MH) w/some
17	5.2	5.0'/5.0	Residuum	MH	angular gravel, weathered
18	5.5				fragments, Weathered Rock Fm
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-797

Date Started: 8/8/11 **Drilling Contractor:** Beart Longyear **Page** 1 **of** ____

Date Completed: 8/8/11 **Driller:** Jeremy Triopke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.5'
1	0.3		Alluvium	SM/SW	yellowish brown (10YR 5/6), silty F-M SAND (SM) w/ some SR gravel, moist well graded
2	0.6	4.5'/5.0'			2.5'-5.0'
3	0.9			SC	strong brown (7.5YR 5/6) clayey F-C SAND (SC), moist w/ some SA-SR gravel
4	1.2				5.0'-10' same as above except is yellowish brown (10YR 5/6) & wet
5	1.5				5.0' RMC 8/8/11
6	1.8	5'-10'			
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				15'-20'
16	4.9	15'-20'			brownish yellow (10YR 6/6) elastic SILT (MH), wet w/ some ang. gravel-sized chert fragments. Weathered Rome Formation
17	5.2		Residuum	MH	
18	5.5	4.0'/5.0'			
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-798

Date Started: 8/2/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 8/2/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0.0'- yellowish brown (10YR 5/6) clayey fr SAND (SC) w/ some SA-SR gravel, moist, gr. is up to 4" alluvium
2	0.6	3.5'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	2.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'	Rosman	MH	brownish yellow (10YR 6/6) elastic SILT (MH), wet-saturated, some angular gravel sized Slate fragments, Weathered Rome Formation
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-799

Date Started: 7/26/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/26/11 **Driller:** Jeremy Trieplie **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	▽		0.0'-10.0' yellowish brown (10YR 5/6), clayey f-c SAND w/some SA-SR gravel
1	0.3				
2	0.6	4.5'/5.0'	Alluvium	SC	gravel is up to 3 in Ø, wet, alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1				
8	2.4	4.5'/5.0'			
9	2.7				
10	3.1	10'-15'			10.0'-13.5' same as above except brownish yellow (10YR 6/6) & saturated
11	3.4				
12	3.7	4.3'/5.0'			
13	4.0				13.5'-15.0' Weathered Rand Formation
14	4.3		Residuum	MH	brownish yellow, clayey, elastic SILT (MH) w/some angular gravel-sized
15	4.6				Terminated Boring @ 15' Shale fragments
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B0800

Date Started: 8/10/11	**Drilling Contractor:** Brant Longyear	**Page** 1	**of** 1
Date Completed: 8/10/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6	
Logged By: S. Kelly	**Equipment:** Mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	FILL	GP	0-2.5 brown (~~7.5YR~~ 10YR 4/3) dry
1	0.3				sa. GRAVEL, dry, gravel is angular
2	0.6				
3	0.9		Residual Alluvial/ Floodplain	MH	2.5-4.5 v. dk. gray (2.5Y 3/1) organic SILT, v. moist
4	1.2				
5	1.5	5-10 100%		SP	4.5-6.5 lt. yellowish brown gr. m-c SAND, sl. moist
6	1.8				
7	2.1			MH	6.5-7.0 v. dk. brown (10YR 2/2) organic SILT
				SP	7.0-7.5 brown (10YR 5/2) m-c SAND, wet
8	2.4			MH	7.5-8.5 - same as 6.5
9	2.7			SP	8.5-13.5 dk. gray (7.5YR 4/1) f-c SAND, some gravel, SA to SR up to 2" ϕ
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3			SM	13.5-16 v. dk. brown (10YR 5/2) v. fine to fine sl. SAND, wet
15	4.6	15-20 100%			
16	4.9		Residual Rome	ML	16-20 v. pale brown (10YR 7/4) SILT w/ angular gravel, sl. moist, weathered Rome Fm (limestone/dolomite)
17	5.2				
18	5.5				
19	5.8				
20	6.1				Boring terminated @ 20' bgs

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-0801

Date Started: 8/10/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 8/10/11 Driller: Jeremy Triepke Survey Unit: 6

Logged By: S. Kelly Equipment: mini Sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	FILL	ML	0-4 brownish yellow (10YR 6/8)
1	0.3	100%			SILT, moist
2	0.6				
3	0.9				
4	1.2		Alluvial	SP	4-5 v. dk. gray (GLEY 1 3/1N) grading
5	1.5	5-10			to yellow (10YR 7/8) m-c SAND w/ gravel. gravel is SA to SR
6	1.8	100%		GP-SP	5- Yellow (10YR 7/8) sa. GRAVEL to gravelly SAND
7	2.1				
8	2.4				
9	2.7			GP-SP	9- AAA but grading back to dark
10	3.1	10-15			gray (7.5YR 4/1) w/ organic layers
11	3.4	80%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8		Residual Rome	GP	19-20ft. olive brown (2.5Y 5/4) angular
20	6.1				gravel (limestone) weathered Rome Fm.
					Boring Terminated @ 20' bgs

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-802

Date Started: 8/9/14 **Drilling Contractor:** Bart Lengyear **Page** 1 **of** 1

Date Completed: 8/9/14 **Driller:** Jeremy Triplett **Survey Unit:** 6

Logged By: _____ **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' – 2.5' brown yellowish (10YR 5/6), clayey fine SAND, some coarse sand few SR gr, up to 4" in Ø, moist
1	0.3				
2	0.6	4.5'/5.0'	Alluvium	SC	2.5'-7.5' very pale brown (10YR 7/4) silty, well graded f-c SAND, few SA-SR gravel, moist, gr. up to 2" in Ø
3	0.9				
4	1.2			SM/SW	
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				brownish-yellow (10YR 6/6), clayey f-c SAND (SC), w/ some SA-SR gravel, gr up to 3" in Ø, wet-saturated, alluvium
9	2.7			SC	
10	3.1				
11	3.4	10'-15'			
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				brownish yellow (10YR 6/6), clayey elastic SILT (MH), some angular sized shale fragments, weathered Rome Formation
17	5.2	5.0'/5.0'	Residuum	MH	
18	5.5				
19	5.8				
20	6.1				Terminate Boring

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-803

Date Started: 8/2/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 8/2/11 **Driller:** Jeremy Triepke **Survey Unit:** 5
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0' 5'			0.0'-10.5' light yellowish brown (10YR 6/4) to
1	0.3				brownish yellow (10YR 6/6)
2	0.6		Alluvium	SC	clayey f-c SAND (SC) w/
		4.5/5.0'			some SA-SR gravel + wet
3	0.9				gravel is up to 4" in a
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'			
8	2.4	5.0'			
9	2.7				
10	3.1				10.5'-15.0'
		10'-15'			brownish yellow (10YR 6/6)
11	3.4				clayey elastic SILT (MH),
					moist-wet, some relict rock
12	3.7	5.0'/5.0'	Residuum	MH	structure, some angular gr.
					sized shale fragments
13	4.0				weathered Rome Formation
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-804

Date Started: 7/26/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 7/26/11 **Driller:** Jeremy Triophe **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	▽		0.0'-9.5' yellowish brown (10YR 5/6), clayey f-c SAND (SC) w/some SA-SR gravel, wet, gr. is up to 3" in O; alluvium
1	0.3		Alluvium		
2	0.6	4.5'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.8'/5.0'			
8	2.4				Weathered Rome Formation brownish yellow (10YR 6/6), clayey elastic SILT (MH), w/some angular gravel sized slate fragments
9	2.7				
10	3.1		Residuum	MH	Terminated Boring @ 10.0
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-805

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/8/11 **Driller:** Jeremy Triepke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0.0'-1.0' brownish yellow (10YR 6/6), clayey F. SAND, few SR gravel, moist
2	0.6				1.0'-5.0'
3	0.9	4.5'/5.0'		SM/SW	very pale brown (10YR 7/3), silty, f-m SAND w/some SA-SR gravel, well-graded
4	1.2				
5	1.5				
6	1.8	5'-10'		SM/SW	5.0'-6.5' same as above except brownish yellow (10YR 6/6)
7	2.1				
8	2.4	5.0'/5.0'		SC	6.5'-12.0' light brownish gray (10YR 6/2) clayey, fine SAND (SC), moist
9	2.7				
10	3.1				
11	3.4	10'-15'			12.0'-16.0'
12	3.7				yellowish brown (10YR 5/4), clayey F. SAND (SC) w/some SA-SR
13	4.0	4.5'/5.0'		SC	gravel, wet, alluvium, gr. 1's
14	4.3				up to 4" in Ø
15	4.6				16.0'-20.0'
16	4.9	15'-20'			brownish yellow (10YR 6/6) elastic SILT (MH) w/some
17	5.2	5.0'/5.0'			angular gr. sized shale fragments
18	5.5				Weathered Rome Formation
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-806

Date Started: 7/26/11 Drilling Contractor: Boart Longyear Page 1 of 1

Date Completed: 7/26/11 Driller: Jeremy Tricphe Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-7.0'
1	0.3				Light yellowish brown f-m clayey
				SC	SAND (SC) few SA-SR gravel, wet,
2	0.6	4.5'/5.0'	Alluvium		gr. is up to 2" in ⌀
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				7.0'-10.0'
7	2.1	5.0'/5.0'			brownish yellow (10YR 6/6), clayey
					f-c SAND (SC) w/ some SA-SR gravel
8	2.4				wet, gravel up to 4" in ⌀
9	2.7				
10	3.1				10.5'-15.0'
		10'-15'			yellowish brown (10YR 5/6), elastic
11	3.4				SILT w/ angular gravel-sized
				MH	shale fragments, some relict
12	3.7		Residuum		rock structure, Weathered
					Rome Formation
13	4.0				
14	4.3				
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-807

Date Started: 8/8/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of**
Date Completed: 8/8/11	**Driller:** Jeremy Triepke	**Survey Unit:** 6	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' – 4.0'
1	0.3				yellowish brown (10YR 5/6), sandy lean
2	0.6	4.0'/5.0'	Alluvium	CL	CLAY (CL) moist-wet, few little SR gravel
3	0.9				
4	1.2				4.0' – 5.0'
5	1.5	5'-10'		SM	pale yellow (2.5Y 7/4), silty SAND (SM) (crushed cobble) dry
6	1.8				5.0' – 7.5'
7	2.1	4.5'/5.0'			pale yellow (2.5Y 7/4) silty well-graded f-m SAND (SW/SM) some coarse sand, few SR gravel
8	2.4				7.5' – 10.0'
9	2.7				very dark grayish brown (10YR 4/2) sandy fat CLAY
10	3.1	10'-15'	▽		(CH) moist, some organics, high plasticity, slight
11	3.4				organic odor
					10.0' – 13.0'
12	3.7	3.5'/5.0'			grayish brown (10YR 5/2) silty f-c SAND, few SR gr. gr up 2" in
13	4.0				wet alluvium
14	4.3				13.0' – 15.0'
15	4.6	15'-20'			very pale brown (10YR 7/3) clayey f-c SAND (SC) w/ some SA-SR
16	4.9				gravel, wet, alluvium, gr up to 2" in ⊖
17	5.2	4.0'/5.0'			15.0' – 24.0' same as above except brownish yellow (10YR 6/6)
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-807

Date Started: 8/8/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/8/11 **Driller:** Jeremy Triopke **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** Mikisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4		Alluvium	SC	24.0'-25.0'
22	6.7	4.5/5.0			Weathered Rome Formation
23	7.0				brownish yellow (10YR 6/6) elastic
24	7.3				SILT (MH) w/ some ang. gravel
			Residuum	MH	sized shale fragments
25	7.6				Terminated Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-808

Date Started: 7/26/11 Drilling Contractor: Boart Longyear Page 1 of

Date Completed: 7/26/11 Driller: Jeremy Trieplee Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	I		0.0'-5.0' strong brown (7.5YR 5/6), silty f-m SAND (SM) few coarse sand + gravel, gravel is SA-SR gr. is up to 2-3" in a wet.
1	0.3		Alluvium	SM	
2	0.6	4.5'/5.0'			
3	0.9				
4	1.2				
5	1.5	5'-10'			5.0'-17.0' very pale brown (10YR 7/4) clayey f-c SAND (SC), wet, w/some SA-SR gravel, gravel up to 2-3" in a.
6	1.8			SC	
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.0'/5.0'			17.0'-20.0' brownish yellow (10YR 6/6) clayey elastic SILT (MH) w/some angular gravel-sized shale fragments, weathered Rome Formation
18	5.5		Residuum	MH	
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-809

Date Started: 8/2/11 Drilling Contractor: Bart Longyear Page 1 of 1

Date Completed: 8/2/11 Driller: Jeremy Kriepke Survey Unit: 6

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-10.0'
1	0.3				yellowish brown (10YR 5/6) silty
2	0.6	4.0'/5.0'	Alluvium	SM/SW	f-c SAND (SM) well-graded (SW) few SR gravel
3	0.9				
4	1.2				
5	1.5	5'-10'			Same as above except pale brown (10YR 6/3)
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10.0'-12.5'
11	3.4			CL	grayish brown (2.5Y 5/2) lean sandy CLAY (CL) moist, some Ang-SR gravel alluvium
12	3.7				12.5'-15.0'
13	4.0	5.0'/5.0'			
14	4.3		Residuum	MH	brownish yellow (10YR 6/6) elastic SILT (MH) wet, some angular gravel-sized shale
15	4.6				weathered Rome Formation
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

Appendix D.3

Soil Boring Logs

Survey Unit 7

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7001

Date Started: 10-4-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-4-13 Driller: J. Triepke Survey Unit: ~~7~~ 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5ft	Fill		0-4 ft strong brown (7.5 YR 4/6) silty, (VF) SAND w/ tr. gravel	
1	0.3	5'				
2	0.6					
3	0.9	5'				
4	1.2				4-5ft Rock (poss. Aggregate Base Course)	
5	1.5	5-10ft			5-5½ft brownish Yellow silty, CLAY	
6	1.8	4½'	Alluvial		5½-6ft dark bluish gray (GLEY2 4/1) A/B/C 6-7 ft dark gray (10YR 4/1) (VF) sandy, SILT w/ Tr. organics & gravel	
7	2.1				7-9½ft light yellowish brown (10YR 6/4) (F-M) SAND w/ SR-WR gravel (upto 3in)	
8	2.4					
9	2.7	5'	▽			
10	3.1	10-15ft			9½-10½ft Pale olive (5Y 6/4) silty (F-M) SAND w/SR gravel (upto 1in.) 10½-21ft brownish yellow (10YR 6/8) (F-M) SAND w/ Clay & WR gravel (upto 2½in)	
11	3.4					
12	3.7	4½				
13	4.0					
14	4.3	5'				
15	4.6	15-20ft				
16	4.9					
17	5.2	5'				
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7001

Date Started: 10-4-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-4-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft				
21	6.4				21-24 ft brownish Yellow (10YR 6/8) CLAY	
22	6.7	4'				
23	7.0				· Some silt & rock frags	
24	7.3	5'			24 ft Weathered Rome	
25	7.6				KW 10-4-13	
26	7.9				Boring Terminated at 25 ft bgs	
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7002

Date Started: 10-2-13 Drilling Contractor: Cascade Page 1 of 3 (WKW 10.2.13)

Date Completed: 10-2-13 Driller: J. Triepke Survey Unit: 7 (WKW 10.4.13)

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-2 ft strong brown (7.5 YR 4/6) Silty, (VF) SAND w/ Trace gravel	
1	0.3	5'				
2	0.6				2-3½ ft brownish yellow (10YR 6/6) Clayey, SILT	
3	0.9					
4	1.2	5'	Alluvial		3½-4½ ft dark gray (10YR 4/1) silty, CLAY w/ tr. organics & Angular gravel	
5	1.5	5-10'			4½-9½ ft light brown gray (10YR 6/2) (VF-M) SAND w/ SR-WR gravel (up to 3in)	
6	1.8	5'				
7	2.1					
8	2.4		▽			
9	2.7	5'				
10	3.1	10-15			9½-10½ ft pale brown (10YR 6/3) Silty, (VF) SAND w/ SR-WR gravel	
11	3.4	3½'			10½-? ft brownish yellow (10YR 5/8) (F-M) SAND w/ clay & WR gravel (up to 2½in)	
12	3.7					
13	4.0	5'				
14	4.3	(Rock in Shoe)				
15	4.6	15-20'				
16	4.9					
17	5.2	4'				
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7002

Date Started: 10-2-13 Drilling Contractor: Cascade Page 2 of ~~2~~ 3 WKW 10-2-13

Date Completed: 10-2-13 Driller: J. Triepke Survey Unit: ~~1~~ 7 WKW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4	0'				
22	6.7				No Recovery	
23	7.0					
24	7.3	5'				
25	7.6	25-30'				
26	7.9	0'				
27	8.2				No Recovery	
28	8.5					
29	8.8	5'				
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

offset 6ft East due to poor Recovery. See Page 3 of 3 "Boring No. 7002 (offset)" for Record of observations.

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7002 (offset)

Date Started: 10-2-13 Drilling Contractor: Cascade Page 3 of 3

Date Completed: 10-2-13 Driller: J. Triepke Survey Unit: WKW 10-4-13 ~~7~~ 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4	0'				
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6	25-30'			No Recovery	
26	7.9					
27	8.2	0'				
28	8.6					
29	8.8	5'				
30	9.2	30-35'			?-32ft light yellowish brown (2.5Y 6/3) CLAY w/some silt & rock fragments	
31	9.5					
32	9.8	5'			32ft weathered Rome	
33	10.1					
34	10.4	5'				
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7003

Date Started: 10-9-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-9-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5ft	Fill		0-1½ft Aggregate Base Coarse	
1	0.3				• Black	
		4½'			1½-4ft brown (10YR 4/3) silty, CLAY	
2	0.6				(clay Cap?)	
3	0.9					
4	1.2	5'			4-5ft (VF) sandy CLAY w/organics	
					& Angular gravel (~¾ in)	
5	1.5	5-10ft	Alluvial		5-7½ft light gray (10YR 7/2) (F-M)	
6	1.8				SAND w/SR-WR gravel (up to 2in)	
		5'				
7	2.1					
8	2.4		▽		7½-10ft grayish brown (10YR 5/2)	
					Silty, (VF) SAND, w/tr. mica & gravel	
9	2.7	5'			• Trace silt lenses	
10	3.1	10-15ft			10-12ft brownish yellow (10YR 6/6) (M/F)	
11	3.4				SAND w/ gravel SR-SW (up to 2½ in) &	
		4'			tr. Silt	
12	3.7				12-15ft gray (GLEY1 5/N) well sorted	
13	4.0				Sl. micaceous (VF-F) SAND	
14	4.3	5'				
15	4.6	15-20 ft				
16	4.9				15½-19½ft yellowish brown (10YR 5/4)	
		3½'			(F-M) SAND w/ clay & SR-WR gravel (up to 3in)	
17	5.2					
18	5.5					
19	5.8	5'				
20	6.1				19½-22ft brownish yellow ~~6/6~~ KW (10YR 6/6)	
					Clay w/ rock fragments	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7003

Date Started: 10-9-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft				
21	6.4	5'				
22	6.7				22ft - Weathered Rome	
23	7.0					
24	7.3	5'				
25	7.6				Boring Terminated @ 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7004

Date Started: 10-4-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-4-13 Driller: J. Triepke Survey Unit: ~~77~~ 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-2½ ft Strong brown (7.5YR 4/6) Silty SAND w. tr. gravel & clay	
1	0.3					
2	0.6	5'				
3	0.9				2½-3½ ft Aggregate Base Coarse	
4	1.2	5'			3½-5 ft light brownish yellow (10YR 6/4) Silty, CLAY (clay cap?)	
5	1.5	5-10 ft	Alluvial		5-8 ft. very dark gray (10YR 3/1) Silty, CLAY w/organics & gravel	
6	1.8					
7	2.1	4'				
8	2.4				8-13 ft light gray (10YR 7/1) (VF-F) SAND w/ little gravel (SR upto 1½ in)	
9	2.7	5'				
10	3.1	10-15 ft				
11	3.4					
12	3.7	4'			· Silty (VF) SAND	
13	4.0				13-16 ft bluish gray (GLEY 2 6/1) Silty, (VF-F) SAND w/ Clay & SR gravel	
14	4.3	5'				
15	4.6	15-20 ft				
16	4.9	5'			16-20 ft yellow (2.5 YR 7/6) & reddish yellow (7.5 YR 6/6) CLAY w/ tr. Rock frags	
17	5.2					
18	5.5					
19	5.8	5'			· increase Rock frags	
20	6.1				20 ft Weathered Rame	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7004

Date Started: 10-4-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-4-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft			20 ft Weathered Rome	
21	6.4	5'				
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6				Boring Terminated at 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7C025

Date Started: 10-1-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10.1.13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-2 ft Strong brown (7.5YR 4/6) silty, (VF) SAND w/ Trace gravel	
1	0.3	5'				
2	0.6				2-4 ft Aggregate Base Coarse → Ballast → 3/4-in lt. gray → dark bluish gray	
3	0.9					
4	1.2	5'			4-6 ft brownish yellow (10YR 6/6) Clayey, SILT	
5	1.5	5-10'				
6	1.8	4½'	Alluvial		6-7 ft dark gray (10YR 4/1) silty CLAY w/ tr. Organics & Angular gravel.	
7	2.1				7-13 ft. light brown gray (10YR 6/2) (VF-M) SAND w/ clay & SR-WR gravel	
8	2.4		▽			
9	2.7	5'				
10	3.1	~~15-20'~~ 10-15'				
11	3.4	3½'				
12	3.7					
13	4.0				13-? ft brownish yellow (10YR 5/8) (F-M) SAND w/ Clay & WR gravel (upto 2½ in.)	
14	4.3	5'				
15	4.6	15-20'				
16	4.9	0'			No Recovery	
17	5.2					
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7005

Date Started: 10-1-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-1-2013 Driller: J. Triepke Survey Unit: 7-7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'			? - 23½ ft yellowish brown (10YR 5/6) (F-M) Clayey SAND w/ SR-WR gravel	
21	6.4	3'				
22	6.7					
23	7.0					
24	7.3	5'			23½ - 25 ft yellow (2.5YR 5/6) CLAY w/ rock frags & little SR-WR gravel.	
25	7.6	25-30'			25 - 29 ft Pale yellow (2.5Y 8/4) CLAY w/ some silt & rock fragments	
26	7.9	5'				
27	8.2					
28	8.5					
29	8.8	5'			29 ft Weathered Rome	
30	9.2				Boring Terminated @ 30 ft bgs.	
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7006

Date Started: 10-4-13	Drilling Contractor: Cascade	Page 1 of 2	
Date Completed: 10-4-13	Driller: J. Triepke	Survey Unit: 7	
Logged By: K. Weir	Equipment: Mini Sonic	Elevation:	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5ft	Fill		0-½ ft Aggregate Base Coarse	
1	0.3				½-2½ Grayish brown (7.5YR 5/4) silty CLAY	
2	0.6					
3	0.9		Alluvial		2½-3½ very dark gray (10YR 3/1) silty CLAY w/ tr. Organics & gravel	
4	1.2	5'			3½-4 Lt. brownish gray (10YR 6/2) WS (VF) SAND	
					4-6 ft very pale brown (10YR 7/3) (F-m)	
5	1.5				SAND w/ SR-WR gravel (up to 1-in.)	
		5-10ft				
6	1.8	5'			6-7½ ft dark gray (10YR 4/1) Clayey (VF) SAND	
7	2.1	4'			• lense of very dark gray silty CLAY	
8	2.4				7½-9½ ft Banded Pale brown (10YR 6/3) & yellowish brn (10YR 5/6) (F-M) SAND	
9	2.7	5'			w/ some (VF) sand & silt	
10	3.1				9½-14½ ft dk gray Brn (10YR 4/2) WS, sl. Mica, (VF) SAND (w/ tr. WR gravel @ 9½ ft)	
		10-15'				
11	3.4	5'				
12	3.7	2'			• dk gray (10YR 4/1) w/ some silt	
13	4.0					
14	4.3	5'				
15	4.6				14½-20 ft brownish yellow (10YR 6/8) loose Clayey (M-C) SAND w/ gravel (up to 4 in)	
		15-20ft				
16	4.9					
17	5.2	2'				
18	5.5					
19	5.8	5 ft				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7006

Date Started: 10-4-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-4-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25ft			↓	
21	6.4				20½-24ft yellow (2.5YR 7/6) & reddish yellow (7.5YR 6/6 CLAY w/ tr. WR gravel	
22	6.7	5'			• w/out gravel	
23	7.0					
24	7.3	5'			24-26ft brownish yellow (10YR 6/6) CLAY w/ silt & rock fragments.	
25	7.6	25-30ft				
26	7.9				26-28½ yellow (10YR 7/8) CLAY w/ ~~Frag~~ Rock Fragments KW 10.4.13	
27	8.2	5'				
28	8.5					
29	8.8	5'			28½ Weathered Rome	
30	9.2				Boring terminated at 30 ft bgs	
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7007

Date Started: 10-7-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10.7.13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-2 ft strong brown (7.5YR 5/6) silty CLAY w/ fr. gravel	
1	0.3					
2	0.6	5'	Alluvial		2-3 ft light gray (10YR 7/2) well sorted (VF-F) SAND w/ little silt	
3	0.9				3-6 ft very pale brown (10YR 8/2) (VF-M) SAND w/ SR gravel (VF-up to 2in)	
4	1.2	5'				
5	1.5	5-10 ft				
6	1.8		▽		6-8 ft gray (10YR 5/1) well sorted (VF) SAND w/ trace silt	
7	2.1	5'				
8	2.4				8-9½ ft light gray (10YR 7/2) wellsorted (VF-F) SAND w/ little silt	
9	2.7	5'				
10	3.1	10-15 ft			9½-14½ ft dark gray (GLEY 1 4/N), micaceous (VF) SAND ~~w/ SR-WR gravel~~ wkw 10.7.13	
11	3.4					
12	3.7	5'				
13	4.0					
14	4.3	5'				
15	4.6	15-20 ft			14½-19 ft yellowish brown (10YR 5/6) Silty (F-M) SAND w/ clay & gravel (up to 3in)	
16	4.9					
17	5.2	2'				
18	5.5					
19	5.8	5'			19-35 ft yellow (10YR 7/6) CLAY w/ Bands of Rock frags.	
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7007

Date Started: 10-7-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-7-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft				
21	6.4	5'				
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6	25-30 ft				
26	7.9	4½				
27	8.2					
28	8.5					
29	8.8	5'				
30	9.2	30-35 ft				
31	9.5					
32	9.8	5'				
33	10.1					
34	10.4	5'				
35	10.7				Boring terminated @ 35 ft bgs	

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7008

Date Started: 10-1-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-1-13 Driller: J. Triepke Survey Unit: ~~7~~ 7 WKW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-5 ft Strong brown (7.5 YR 4/6) Silty, (VF) SAND w/ Tr. gravel	
1	0.3	5'				
2	0.6					
3	0.9					
4	1.2	5'			4-4½ ft ~~Rock fragments (chalk)~~ Aggregate base course WKW 10-1-13 -Clayey	
5	1.5	5-10'			5-6 dark gray (10YR 4/1) silty (VF-F) SAND w/ some (VF) gravel	
6	1.8	4.5'	Alluvial		6-9½' Pale yellow (2.5 YR 7/4), (VF-F) SAND w/ SR gravel (up to 2in)	
7	2.1					
8	2.4	5'		▽		
9	2.7					
10	3.1	10-15'			9½-10 ft very dark gray silty CLAY w/ sl. SR gravel 10-17 ft light brownish gray (VF-M) SAND w/ clay & SR gravel (up to 2in)	
11	3.4	4.5'				
12	3.7					
13	4.0					
14	4.3	5'			-WR gravel (up to 3in)	
15	4.6	15-20'				
16	4.9					
17	5.2	5'			17-21 ft yellow (2.5 YR 5/6) & reddish yellow (7.5 YR 6/6) CLAY w/ Tr. Rock fragments	
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

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BORING NO. 7008

Date Started: 10·1·2013 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10·1·13 Driller: J. Triepke Survey Unit: ~~7~~ 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4				21-24½ Strong brown (7.5 YR 4/6)	
		2'			Rock FRAGS & Clay	
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6				24½-28 ft Yellow (10YR 7/8) CLAY	
		25-30'			w/ rock frags	
26	7.9	4½'				
27	8.2					
28	8.5				28 ft Weathered Rock	
29	8.8	5'				
30	9.2				Boring terminated @ 30 ft bgs	
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7009

Date Started:	10-7-13	Drilling Contractor:	Cascade	Page 1	of 2
Date Completed:	10-7-13	Driller:	J. Triepke	Survey Unit:	7
Logged By:	K. Weir	Equipment:	Mini-Sonic	Elevation:	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-½ ft. Aggregate Base Coarse	
1	0.3				½-3 ft. dark brown (10YR 3/3) silty.	
		5'			(VF-F) SAND w/ gravel	
2	0.6					
3	0.9		Alluvial		3-6 ft very pale brown (10YR 8/2)	
4	1.2	5'			(VF-M) SAND w/ SR gravel (VF upto 1½ in)	
5	1.5	5-10 ft				
6	1.8				6-7 ft gray (10YR 5/1) well sorted (VF)	
7	2.1	4½'	▽		SAND w/ trace silt	
					7-9 ft very pale brown (10YR 7/3)	
8	2.4				(F-M) SAND w/ (VF-F) gravel (tr.)	
9	2.7	5'			9-11½ ft brown (10YR 4/3) sl. micaceous	
10	3.1	10-15 ft			(VF-M) SAND w/ tr. silt & gravel	
11	3.4				- gray (10YR 6/1)	
12	3.7	5'			11½-13½ dark gray (GLEY 1 4/N) micaceous	
					(VF) SAND	
13	4.0					
14	4.3	5'			13½-17½ ft yellowish brown (10YR 5/6)	
					silty (F-M) SAND w/ Clay & WR	
15	4.6	15-20 ft			gravel (upto 3 in).	
16	4.9	5'				
17	5.2					
18	5.5				17½- ft yellow (10YR 7/6) CLAY	
					w/ Bands of Rock frags	
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7009

Date Started: 10-7-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-7-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Min-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4	5'				
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6	25-30'				
26	7.9					
27	8.2	5'				
28	8.5					
29	8.8	5'				
30	9.2	30-35'				
31	9.5				washed Rock Fragments	
32	9.8	1½'				
33	10.1					
34	10.4	5'				
35	10.7				Boring Terminated in 35 ft bgs.	

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7010

Date Started:	10·8·13	Drilling Contractor:	Cascade	Page	1 of
Date Completed:		Driller:	J. Tricpke	Survey Unit:	7
Logged By:	K. Weir	Equipment:	mini - Sonic	Elevation:	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft			0-1/2 ft Aggregate Base Course	
1	0.3				1/2-1 ft brown Silty, CLAY	
		5'			1-2 ft very dark gray (10YR 3/1) silty	
2	0.6				(VF) Sand w/ tr. gravel & organics	
					2-9 ft light gray (10YR 7/1) (VF-F) SAND	
3	0.9				w/ gravel (up to 1 1/2 in) & some silt	
4	1.2	5'			• Multiple yellow (10YR 7/6)	
5	1.5				lenses	
		5-10'				
6	1.8		▽			
7	2.1	5'				
8	2.4					
9	2.7	5'			9-11 1/2 ft lt. brownish gray (10YR 6/2)	
10	3.1				Well sorted (F) SAND	
		10-15 ft				
11	3.4				• w/ WR gravel (up to 2 in)	
		5'				
12	3.7				11 1/2-12 1/2 ft light yellowish brown (10YR 6/4)	
					Sl. micaceous, Silty (VF) SAND	
13	4.0				12 1/2- ft strong brown (7.5YR 5/6) (F-M)	
					SAND w/ some Clay & (C) sand.	
14	4.3	5'				
15	4.6				• SA-SR gravel (up to 1 1/2 in)	
		15-20 ft				
16	4.9				16-16 1/2 ft very Pale brown (10YR 7/3) CLAYW Rock Frags	
17	5.2	5'			16 1/2 ft Weathered Rock	
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7011

Date Started: 10.8.13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10.8.13 Driller: J. Tripke Survey Unit: 7

Logged By: K. Weir Equipment: mini-sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	fill		0-1 ft Aggregate Base Course	
1	0.3	5'			1-2 ft dark grayish brown (10YR 4/2) (VF) sandy, SILT, tr. organics & gravel	
2	0.6		Alluvial		2-3 ft light yellowish brown (2.5YR 6/3) Silty, (VF) SAND	
3	0.9				3-6½ft brownish yellow (10YR 6/6) (UF-F) SAND w/ SR gravel (up to 1½ in)	
4	1.2	5'				
5	1.5	5-10 ft				
6	1.8					
7	2.1	5'			6½-7ft very dark gray (10YR 3/1) clayey SILT	
					7-13ft light gray (10YR 7/1) (UF-F) SAND	
8	2.4				w/ silt & SR-WR gravel (up to 3in)	
9	2.7	5'				
10	3.1	10-15 ft				
11	3.4	5'			• band: lt. gray (10YR 7/1) w/ some CLAY	
12	3.7					
13	4.0				13-15½ft dark yellowish brown (10YR 4/4)	
14	4.3	5'			Sl. micaceous (VF) SAND	
15	4.6	15-20 ft				
16	4.9	4½'			15½-19½ light brownish gray (10YR 6/2) Silty, (UF-F) SAND w/ WR gravel &	
17	5.2				little clay	
18	5.5					
19	5.8	5'				
20	6.1				19½-20½ yellow (10YR 7/8) CLAY w/ rock fragments	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7011

Date Started: 10·8·13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10·8·13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: mini-sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25ft				
21	6.4				20½ Weathered Rome	
		4½'				
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6				Boring terminated @ 25ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7012

Date Started: 10-1-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-1-13 Driller: J. Triepke Survey Unit: 7 (updated 10.4.13)

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-1½ft Strong brown (7.5YR 4/6) Silty, (VF) SAND, w/ Tr. (c) Sand	
1	0.3					
2	0.6	5'			1½-3ft Rock Fragments (shale)	
3	0.9	5'			3-4 ft brownish Yellow (VF) Sandy, SILT	
4	1.2		Alluvial		4-4½ft brownish Yellow (10YR 5/4) Silty, (VF-F) SAND w/SR-WR gravel (up to 3in.)	
5	1.5	5-10'				
6	1.8	4½			Coarsening to (M-C) SAND	
7	2.1					
8	2.4					
9	2.7	5'		▽		
10	3.1	10-15'			9½-10½ft very dark gray (10YR 3/1) Silty, CLAY w/ SA-SR gravel (up to 1 in.) 10½-11ft very Pale brown (M-C) SAND w/ WR gravel	
11	3.4	4'			11-14½ft brownish Yellow (10YR 5/4) (M-C) SAND & SR-WR gravel w/ some (VF-F) Sand & silt.	
12	3.7					
13	4.0					
14	4.3	5'				
15	4.6	15-20'			14½-15½ft gray (10YR 5/1) & yellow (10YR 7/6) Clayey (VF) SAND w/ SR gravel (up to 1 in.) 15½-20 brownish yellow (10YR 5/8) Clayey SR-WR Gravel w/ Sand & Some silt (gravel up to 4-in.)	
16	4.9	4'				
17	5.2					
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7012

Date Started: 10-1-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-1-13 Driller: J. Triepke Survey Unit: 7 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'	Alluvial		20-21½ ft yellowish red (5YR 5/6) & yellow (10YR 7/6) CLAY w/ little WR gravel	
21	6.4					
22	6.7	4'			21½-22½ yellow (10YR 8/6) & reddish brown (5YR 4/4) silty CLAY w/ rock frags	
23	7.0				22½-28 ft yellow (2.5YR 7/6) CLAY w/ Rock Frags	
24	7.3	5'				
25	7.6	25-30'				
26	7.9	4'				
27	8.2					
28	8.5				28 ft Weathered Rome (partially)	
29	8.8	0'			~~28½~~ ft WKW 10-1-13	
30	9.2	30-35'				
31	9.5					
32	9.8	3'				
33	10.1					
34	10.4	5				
35	10.7				Boring Terminated @ 35 ft bgs	

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7013 ~~7022~~ KW 9-30-13

Date Started: 9-30-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: ~~7~~ 7 KW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-1 ft ~~0-1 ft~~ Aggregate Base Course ~~1/2~~ 9-30-13	
1	0.3	5'			1-2½ ft very dark brown (10YR 3/2) (UF) Sandy, SILT w/ Tr. Organics	
2	0.6					
3	0.9	5'	Alluvial		2½-7 ft brownish yellow (10YR 6/6) (UF-M) SAND w/ SR-WR gravel (upto 4in.) & Some (c) sand.	
4	1.2					
5	1.5	5'-10'				
6	1.8	5'	▼		Coarsening w/ yellowish Brn (10YR 5/6)	
7	2.1				7-8 ft finely banded white (10YR 7/1) & yellowish Brn (10YR 5/6) Clayey (UF-F) SAND	
8	2.4				8-? ft dark yellowish brown (10YR 4/4) Sl. micaceous, silty, (UF) SAND	
9	2.7	5'				
10	3.1	10'-15				
11	3.4	½'			No Recovery	
12	3.7					
13	4.0					
14	4.3	5'				
15	4.6	15-20'			~~7~~ ?-16½ dark yellowish brown, Sl. Micaceous, silty, (UF) SAND	
16	4.9					
17	5.2				16½-23 ft yellowish brown (10YR 5/8) Clayey, SR-WR GRAVEL w/ Some Silt & Sand (gravel upto 3in.)	
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7013 ~~7022~~ KWW 9-30-13

Date Started: 9-30-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: ~~177~~ WKW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4					
22	6.7	4½'			- brownish yellow (10YR 6/8)	
23	7.0				23-24½ ft. light gray (10YR 7/1) & Yellow (10YR 7/6) CLAY w/ some silt	
24	7.3	5'			- Rock Frags	
25	7.6				24½ Weathered Rock	
					Boring terminated @ 25ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7014

Date Started: 10-7-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 10-7-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-½ feet Aggregate Base Course	
1	0.3				½-2 ft Strong brown (7.5YR 5/6) silty, (VF) SAND w/ tr. gravel	
		5'				
2	0.6		Alluvial		2-13 ft light gray (10YR 7/2) Poorly	
3	0.9				Sorted (VF-F) Sand w/SR gravel (upto 2-in)	
4	1.2	5'				
5	1.5	5-10 ft				
6	1.8					
7	2.1	2'	▽			
8	2.4					
9	2.7	5'				
10	3.1	10-15 ft				
11	3.4				• Coarsening (F-M) SAND	
12	3.7	5'				
13	4.0				13-14 ft brown (10YR 5/3) sl. micaceous	
14	4.3	5'			silty (VF) SAND w/ some gravel 14-16 ft brownish yellow (10YR 6/6	
15	4.6	15-20 ft			(F-M) SAND w/ gravel & some silt & clay	
16	4.9	4½'			16-18½ yellow (10YR 7/6) CLAY	
17	5.2				w/ rock frags	
18	5.5					
19	5.8	5'			18½ Weathered Zone	
20	6.1				Boring Terminated @ 20 ft bgs	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7015

Date Started: 10-7-13 Drilling Contractor: Cascade Page 1 of

Date Completed: Driller: Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-1 ft Aggregate Base Coarse	
1	0.3	5'			1-1½ ft dk grayish brn silty SAND	
2	0.6		Alluvial		1½-5½ ft very pale brown (10YR 8/2) (VF-M) SAND w/ SR gravel (up to 2in)	
3	0.9					
4	1.2	5'				
5	1.5	5-10 ft				
6	1.8	5'			5½-6½ ft gray (10YR 5/1) WS (VF) SAND w/ tr. organic silt lenses	
7	2.1		▽		6½-7½ ft light gray (10YR 7/1) (F-M) SAND w/ tr. silt & gravel	
8	2.4				7½-9 ft light brownish yellow (10YR 6/4) (M-C) SAND w/ some (VF-F) sand, silt & gravel (up to 1½-in.)	
9	2.7	5'			9-10 ft reddish yellow (7.5 YR 6/8) (M-C) SAND w/ (VF/F) sand & gravel (SA-SR)	
10	3.1	10-15 ft			10-11½ ft light gray (10YR 7/2) (VF-F) SAND w/ WR dark bluish gray gravel	
11	3.4					
12	3.7	5'			11½-12½ ft light yellowish brown (10YR 6/4) (F-C) SAND w/ gravel (up to 2in)	
13	4.0				12½-13 ft yellowish brown silty (VF) SAND	
14	4.3	5'			13- ft strong brown (7.5 YR 4/6) (M-C) SAND w/ abundant (SR-WR) gravel (up to 3 in)	
15	4.6	15-20 ft				
16	4.9					
17	5.2	3½'			16½-17½ very pale brown (10YR 8/4) CLAY & abundant rock frags	
18	5.5				17½ Weathered Rock	
19	5.8	5'				
20	6.1				Boring terminated @ 20 ft bgs.	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7016 ~~7006~~ WKW 10.8.13

Date Started: 10.8.13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10.8.13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0.5 ft	Fill		0-1 ft Aggregate base Coarse	
1	0.3				1-2 ft dark grayish brown (10YR 4/2) (UF) sandy SILT w/ tr. organics & gravel	
2	0.6	5'	Alluvial		2-3 light yellowish brown (2.5YR 6/3) well sorted (UF) SAND	
3	0.9				3-6½ft brownish yellow (10YR 6/6) (UF-F) SAND w/ SR-WR gravel (upto 2in)	
4	1.2	5'				
5	1.5	5-10ft				
6	1.8					
7	2.1	5'			6½-8ft very dark gray (10YR 3/1) Clayey SILT w/ tr. gravel & organics	
8	2.4				8-12½ft gray (10YR 5/1) (UF-F) SAND w/ silt & SR-WR gravel (upto 3in)	
9	2.7	5'				
10	3.1	10-15 ft				
11	3.4					
12	3.7	5'			• Band lt. gray (10YR 7/1) w/ some clay	
13	4.0				12½-13½ dark gray (10YR 4/1) (UF) sandy SILT w/ some Clay & organics	
14	4.3	5'			13½-15 ft dark yellowish brown (10YR 4/4) Sl. Micaceous (UF) SAND	
15	4.6	15-20ft			15-17 strong brown (7.5YR 4/6) well sorted (F-M) SAND, tr. SR gravel (upto 1in)	
16	4.9					
17	5.2	5'			17-18½ yellowish brown (10YR 5/6) clayey GRAVEL w/ some silt & sand	
18	5.5					
19	5.8	5'			18½-19½ light yellowish brown (10YR 6/4) CLAY w/ rock fragments	
20	6.1				19½-23ft brownish yellow (10YR 6/6) CLAY w/ tr. rock frags	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7016 ~~7006~~ WKW 10-8-13

Date Started: 10-8-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-8-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft				
21	6.4					
22	6.7	5'				
23	7.0				23 ft Weathered Rome	
24	7.3	5'				
25	7.6				Boring terminated @ 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7017

Date Started: 9-26-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-26-13 Driller: J. Triepke Survey Unit: 7+7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
					0-1½ ft dark yellowish brown (10YR 4/4) Silty (F→VF) SAND w/ gravel (upto 1½in).	
1	0.3					
2	0.6	5'/5			1½-2½ft very dark brown (10YR 2/2) (VF) sandy SILT w/ organics	
3	0.9				2½-8½ft brownish yellow (10YR 6/6) (VF-M) SAND w/ SR-WR gravel (upto 3in) & some (C) SAND.	
4	1.2					
5	1.5					
6	1.8					
7	2.1	4'/6'				
8	2.4					
9	2.7				8½-10½ft light yellowish brown (10YR 6/4) (F-M) SAND w/ silt - gravel SR (upto 2in)	
10	3.1					
11	3.4	4½'			10½-12½ dark grayish brown (2.5Y 4/2) Silty, Sl. micaceous (VF) SAND	
12	3.7					
13	4.0				12½-16½ dark yellowish brown (10YR 4/4) Silty (VF-F) SAND (well sorted)	
14	4.3	5'				
15	4.6					
16	4.9	4'				
17	5.2				16½ to 17½ft yellow (10YR 7/6) CLAY w/ gravel & rock fragments.	
18	5.5				17½ to 18½ft Light gray (10YR 7/1) CLAY w/ rock fragments.	
19	5.8	5'			18½ft Weathered Rock	
20	6.1				Boring Terminated @ 20 ft BGS	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7018

Date Started: 9-26-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-26-13 Driller: J. Triepke Survey Unit: ~~17~~ 7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini - Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5	Fill		Ø-½' Aggregate Base Course	
1	0.3	5'			½-1½' very dark brown (10YR 2/2) (VF) SAND w/ silt & organics	
2	0.6		Alluvial		1½-2' dark yellowish brown (10YR 4/6)	
		5'			2-9 ft brownish yellow (10YR 6/6)	
3	0.9				(VF-M) SAND w/ SR-WR gravel	
					(up to 3in.) & some (C) sand.	
4	1.2					
5	1.5	5-10'				
6	1.8	4½'				
7	2.1					
8	2.4	5'				
9	2.7				9-10 ft gray (10YR 5/1) CLAY	
10	3.1	10-15'			w/ (VF) sand & silt	
					10-13 yellow brown (10YR 5/4) Poorly	
11	3.4				Sorted (F-C) SAND w/ some silt	
		4'			& Clay (abundant SR-WR gravel)	
12	3.7					
13	4.0	5'			13-14' brownish yellow (10YR 5/4) silty	
14	4.3				(VF) SAND	
					14-16' very dark gray (10YR 3/2)	
15	4.6	15-20'			organic rich clayey SILT	
16	4.9				16-18½' yellow (10YR 7/6) CLAY	
17	5.2				(Banded w/ Light gray)	
18	5.5					
19	5.8	5'			18½-19½' Light gray (10YR 7/1) CLAY	
					w/ Rock Frags	
20	6.1				Weathered Komc	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7019

Date Started: 9-27-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 9-27-13 Driller: J. Triepke Survey Unit: 7 17 WJEW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5	Fill		0-½' Aggregate Base Course	
1	0.3				½-2' very dark brown (10YR 2/2) SILT w/ (VF) Sand & silt & organics	
		5'			↓	
2	0.6				2-4½' yellowish brown (10YR 5/6) clayey SILT w/some (VF) sand	
3	0.9				↓	
		5'				
4	1.2				4½-9½ft Yellow (10YR 7/6) (VF→F) SAND w/ some (m-c) sand & SR gravel	
5	1.5	5-10'				
6	1.8				brownish yellow (10YR 6/6) ↳ Coarsening (F-M) sand → gravel (up to 3 in)	
		4.5'				
7	2.1					
8	2.4					
9	2.7	5'				
10	3.1	10-15'			9½-14ft gray (10YR 6/1) Sandy CLAY w/ abundant SA-WR gravel (up to 2 in.) & silt.	
11	3.4					
		4'				
12	3.7					
13	4.0					
		5'				
14	4.3				14-? ft yellow (10YR 7/6) CLAY w/ WR gravel (up to 2½ in) & some (M→C) sand	
15	4.6	15-20'				
16	4.9					
		0'				
17	5.2				No Recovery	
18	5.5					
		5'				
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7019

Date Started: 9-27-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 9-27-13 Driller: J. Triepke Survey Unit: 7 ~~7~~ WJW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'			? -25 ft yellow (10YR 7/6) ~~gravel~~ clayey	
21	6.4	4'			SP-WR gravel (up to +4 in)	
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6	25-30				
26	7.9	5'			25½-26' angular rock Frags 26-29½' finely Banded CLAYS → dark gray (10YR 5/1) & → yellowish brown (10YR 5/4)	
27	8.2					
28	8.5	5'			→ yellow (10YR 8/6) & → yellowish Red (5YR 5/6)	
29	8.8					
30	9.2	30-35'			29½-30½ ft dark reddish brown (5YR 3/2) Clayey, Angular → SA Rock frags 30½-32½ ft grayish brown (10YR 5/2) Clay w/ WR gravel (up to >4½ in)	
31	9.5	5'			- ~~No~~ ~~gravel~~ w/out gravel - with Rock fragments	
32	9.8				Weathered Rome	
33	10.1	5'				
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7020

Date Started: 10·8·13 Drilling Contractor: Cascade Page 1 of

Date Completed: Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-1 ft Aggregate Base Coarse	
1	0.3				↓	
					1-3 ft dark grayish brown (10YR 4/2)	
2	0.6	4½'			silty, (VF-F) SAND w/ tr. angular gravel	
					(up to 1-in) (tr. Anthracite?)	
3	0.9				· Tr. debris ↓	
			Alluvial		3-6 ft reddish yellow (7.5YR 6/6)	
4	1.2	5'			Clay w/ some silt	
5	1.5					
		5-10 ft			· w/ wr gravel	
6	1.8				↓	
					6-12½ ft brown (10YR 5/3) silty (VF-F)	
7	2.1	3'			SAND w/ sr-wr gravel (up to 4-in)	
8	2.4					
9	2.7	5'				
10	3.1					
		10-15 ft				
11	3.4					
12	3.7	5'				
			▽		12½-21½ ft yellowish brown (10YR 5/4)	
13	4.0				Clayey (VF-F) SAND w/ silt & sr-wr	
14	4.3	5'			gravel (up to 4 in.)	
15	4.6					
		15-20 ft				
16	4.9					
17	5.2	5'				
18	5.5				· Coarsening w/ (F-M) Sand	
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7020

Date Started: 10.8.13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10.8.13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25 ft				
21	6.4	4½			21 ft-22½ ft light gray (10YR 7/2) CLAY w/ rock frags	
22	6.7					
23	7.0				22½ Weathered Rome	
24	7.3	5'				
25	7.6				Boring Terminated @ 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7021

Date Started: 9-30-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: 7+7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5' 4½'	Fill		0-1ft Aggregate Base Course	
1	0.3				1-3½ ft dark yellowish brown (10YR 4/4) (VF-F) Sandy, SILT w/ Tr. Organics KW 9-30-13	
2	0.6					
3	0.9	5'				
4	1.2		Alluvial		3½-7' ~~yellowish~~ KW 9-30-13 very pale yellowish Brn (10YR 7/4) (VF-F) SAND w/ (m) sand & silt & SR gravel (upto 2½ in.) (Quartz)	
5	1.5	6-10'				
6	1.8	4½'		▽	Coarsening w/ yellowish Brn	
7	2.1				7-8ft finely Banded white (10YR 8/1) & yellowish Brn (10YR 6/6) Clayey (VF-F) SAND	
8	2.4				8-8½ft Strong Brn (7.5YR 5/6) WS (F) SAND	
9	2.7	5'			8½-9½ft dark yellowish Brn (10YR 4/4) Sl. Micaceous, Silty (VF) SAND	
10	3.1	10-15'			9-½-11½ft brown (10YR 4/3) Silty, (F-M) ~~SAND~~ SAND w/ WR gravel (upto 1½ in.)	
11	3.4					
12	3.7	4'			11½-14ft yellowish brn (10YR 5/8) Clayey, SR-WR GRAVEL (upto 4in) w/ ~~some~~ Sand & Silt KW 9-30-13	
13	4.0					
14	4.3	5'			14-20½ft yellowish Brn (10YR 5/6) silty (F-M) SAND w/ SR-WR gravel (upto 1½ in) & some clay	
15	4.6	15-20'				
16	4.9					
17	5.2	2'			17-17½' ~~band~~ of very Pale Brn (10YR 8/2) WS (F) SAND	
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7021

Date Started: 9-30-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: 7 ~~17~~ WKW 10-4-13

Logged By: K. Weir Equipment: mini-sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'			↓	
21	6.4				20½-22 ft. light gray (10YR 7/1) & Yellow (10YR 7/6) CLAY w/ Rock Frags	
		5'				
22	6.7				22ft Weathered Rome.	
23	7.0					
24	7.3	5'				
25	7.6					
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7022

Date Started: 9-30-13 Drilling Contractor: Cascade Page 1 of

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: ~~7~~ 7 KW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5ft	Fill		0-2ft very dark brown (10YR 2/2) (VF-F)	
1	0.3				sandy, SILT w/some clay	
2	0.6	4½				
					2-5 ft brownish yellow (10YR 6/6)	
3	0.9	5			(VF-M) SAND w/ SR-WR gravel (upto	
					4in.) & some (c) sand	
4	1.2					
5	1.5	5-10ft			5-6ft Red (2.5YR 4/6) silty, CLAY	
6	1.8	4	▽		w/organic	
					6-6½ Very pale brown Clayey GRAVEL	
7	2.1				6½-8½ finely banded white (10YR 8/1) &	
					yellowish brown (10YR 5/6) clayey (VF-F)	
8	2.4	5			SAND	
9	2.7				8½-9½ft KW 9-30-13 ~~very~~ dark yellowish brown (10YR 4/4)	
					sl. micaceous, silty, (VF) SAND	
10	3.1	10-15ft			9½-11½ ft yellowish brown (10YR 5/8)	
					micaceous, silty, (VF) SAND w/ little clay	
11	3.4	4½'				
12	3.7				11½-12 ft very dark brown, clayey (M-C) SAND	
					12-14½ft brown (10YR 4/3) clayey (F-C) SAND	
13	4.0	5'			& SR-WR GRAVEL w/some silt	
14	4.3					
15	4.6	15-20ft			14½-20½ft yellowish brown (10YR 5/8)	
					(F-C) SAND w/SR-WR GRAVEL (upto 3in),	
16	4.9	5'			abundant Clay & some silt	
17	5.2				16½-17ft "clayey" band	
18	5.5	5'				
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7022

Date Started: 9-30-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 9-30-13 Driller: J. Triepke Survey Unit: ~~7~~ 7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25				
21	6.4	4'			20½-22ft light gray (10YR 7/2) CLAY w/ Rock Fragments	
22	6.7				22ft Weathered Rome	
23	7.0					
24	7.3	5'				
25	7.6				Boring Terminated @ 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7023

Date Started: 10-9-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10-9-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5 ft	Fill		0-1 ft gravel / Aggregate Base Coarse-	
1	0.3				1-1½ ft dark grayish brn (10YR 4/2) silty (VF) SAND	
2	0.6	5'	Alluvial		1½-3½ ft pale brown (10YR 6/3) (VF-F) SAND w/ silt & gravel (SR-WR upto 1½ in)	
3	0.9					
4	1.2	5'			3½-4½ ft very Pale brown (10YR 8/2) (VF) Sandy CLAY ((VF) SAND from 4 to 4½ ft)	
5	1.5	5-10 ft			4½-11 ft brownish yellow (10YR 6/6) (F) SAND w/ gravel & some (m) sand & silt	
6	1.8					
7	2.1	4½'				
8	2.4				• Coarsening => (F-m) SAND w/ some (c) sand	
9	2.7	5'				
10	3.1	10-15 ft				
11	3.4				11-12 ft very Pale brown (10YR 7/3) (F-m) SAND w/ gravel (WR upto 2in) & some Clay.	
12	3.7	5'			12-13 ft dark yellowish brown (10YR 4/4) Sl. micaceous (F) sand w/ silt & clay (some)	
13	4.0				13-20 ft yellowish brown (10YR 5/4) (F) SAND w/ SR-WR gravel (upto 4in) & some (m) sand, silt & clay	
14	4.3	5'				
15	4.6	15-20 ft				
16	4.9					
17	5.2	4½'				
18	5.5					
19	5.8	5'				
20	6.1				20 ft Weathered Rock	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7023

Date Started: 10-9-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10-9-13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'			20ft - Weathered Rome	
21	6.4					
22	6.7	5'				
23	7.0					
24	7.3	5'				
25	7.6				Boring Terminated @ 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7024

Date Started: 9-26-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-26-13 Driller: J. Triepke Survey Unit: ~~17~~ 7 wkw 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-1 ft Light yellowish Brown (10YR 6/4) Moist, Silty (VF→F) SAND	
1	0.3				1-2 ft Pale yellow (2.5YR 7/3) (VF→F) SAND w/ some silt	
2	0.6	5'/5'	Alluvial		2-6½ ft brownish yellow (10YR 6/6) (F→C) SAND w/ WR gravel (upto 2 in.)	
3	0.9					
4	1.2					
5	1.5	5-10'				
6	1.8	4½'				
7	2.1				6½-7½ ft very dark gray (10YR 3/2) organic rich Clayey SILT w/ little VF sand	
8	2.4				7½-9½ Light gray (10YR 7/1) (VF-M) SAND w/ gravel SR→WR (upto 2½ in)	
9	2.7	5'			w/ tr. Reddish yellow Clays	
10	3.1	10-15'			9½-10' Light gray (10YR 7/1) Clayey (VF) SAND 10-13 ft Brown (10YR 4/3) Slightly micaceous, Well Sorted (VF-F) SAND	
11	3.4	4½'				
12	3.7					
13	4.0				13-18 ft dark yellowish brown (10YR 4/4) Poorly Sorted (VF-C) SAND w/ some clay & silt -abundant SR-WR gravel (upto 3 inch)	
14	4.3	5'				
15	4.6	15-20'				
16	4.9					
17	5.2	4'				
18	5.5				18-18½ ft yellow (10YR 7/6) Clay w/ WR gravel Weathered Rome	
19	5.8	5'				
20	6.1				Boring Terminated @ 20 ft Bgs	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7025

Date Started: 9-26-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-26-13 Driller: J. Triepke Survey Unit: ~~7~~ 7 WKW 10.4.13

Logged By: R. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
			Fill	Fill	0-1 ft. Red (2.5YR 4/6) moist CLAY w/ silt & Rock Frags & Organic	
1	0.3				1-2 ft. Very dark gray (10YR 3/1) SILT w/ (VF→F) SAND & tr. organics	
2	0.6	5'/5'	Alluvial		2-8½ ft yellowish brown (10YR 5/4) Poorly sorted (F→C) SAND w/ SR-WR gravel (upto 4 in)	
3	0.9					
4	1.2					
5	1.5		▽			
6	1.8	4'/5'				
7	2.1					
8	2.4					
9	2.7				8½-9 ft ~~yellowish brown~~ brownish yellow well sorted (F-M) SAND 9-14 ft brownish yellow (10YR 6/6) (M-C) SAND w/ some silt & (VF) sand	
10	3.1					
11	3.4	4.5'/5'				
12	3.7					
13	4.0					
14	4.3				14-16 ft Reddish yellow (7.5YR 6/6) Clayey, SR-WR gravel (upto 2½ in.) w/ some (VF-VC) sand & silt	
15	4.6					
16	4.9				16-19 ft Light gray (10YR 7/1) CLAY w/ rock fragments	
17	5.2					
18	5.5					
19	5.8				Weathered Rock	
20	6.1				Boring terminated at 20 ft BGS.	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7026

Date Started: 9-25-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-25-13 Driller: J. Triepke Survey Unit: 7 77 w/(sw) 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-1 ft Brown (10YR 4/3) moist clayey silt w/ some gravel & (f) sand & organics	
1	0.3				1-2½ ft yellowish brown (10YR 5/4) well sorted (F) SAND w/ trace organics	
2	0.6	5'/5'	Alluvial			
3	0.9				2½-5½ ft Brownish yellow (10YR 6/6) Poorly sorted (F→C) SAND w/ SR→WR gravel (up to 2½ in.)	
4	1.2				"Quartz sand Band." ↳ Pale yellow	
5	1.5	5-10'				
6	1.8				5½-6 ft white (10YR 8/1) (VF) Silty SAND 6-8½ ft very dark gray (10YR 3/2) organic rich, clayey SILT w/ little (VF) SAND	
7	2.1	4½'/5'			↳ Sand lenses (3)	
8	2.4					
9	2.7				8½-9½ ft, Light gray (10YR 7/1) well sorted (f-m) SAND 9½-11 ft gray (10YR 6/1) (VF-F) SAND	
10	3.1					
11	3.4				11-13 ft light gray / dark gray mix of (M-C) SAND w/ some silt & (VF) SAND	
12	3.7	4'/5'				
13	4.0				13-16 ft brownish yellow (10YR 6/6) (M-C) SAND & SR-WR gravel (up to 3in) w/ Silt, Clay & Mica chips.	
14	4.3					
15	4.6					
16	4.9	4½'/5'			Weathered Rome	
17	5.2					
18	5.5					
19	5.8					
20	6.1				Boring terminated at 20 ft bgs	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7027

Date Started: 9-25-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-25-13 Driller: J. Triepke Survey Unit: 7 ~~17~~ WKUD 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0→½ ft Red CLAY w/ silt & Rock Frag	
1	0.3				½→1½ ft very dark gray (10YR 3/1) SILT	
		5/5	Alluvial		w/ (UF→F) SAND & tr. Organics	
2	0.6				1½→5½ ft. yellowish Brown (10YR 5/6)	
					Poorly sorted (F→M) SAND w/ some	
3	0.9				(C) sand & SR→WR gravel (up to 2½ in.)	
4	1.2					
5	1.5	5'-10'				
					5½→11 ft brownish yellow (10YR 6/6)	
6	1.8				(M→C) SAND w/ SR→WR gravel	
7	2.1	4'/5'			(up to 4 in.) & trace silt & (F) sand	
8	2.4					
9	2.7					
10	3.1	10-15'				
11	3.4				11→15½ ft Brown (10YR 4/3)	
					well sorted sl. micaceous	
12	3.7	4.5'/5'			(UF-F) SAND	
13	4.0					
14	4.3					
15	4.6	15-18½				
					15½→17½ ft Light gray (2.5YR 7/1)	
16	4.9	3'/3½'			CLAY w/ Rock Frags (up to 2 in.)	
17	5.2					
18	5.5				Weathered Rock	
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7028

Date Started: 9-25-13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 9-25-13 Driller: J. Triepke Survey Unit: 7 ~~7~~ w/w 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0-5'	Fill		0-1' Red (2.5YR 4/6) moist CLAY w/ silt & Rock Frags	
1	0.3				1-2 ft dark grayish brown (10YR 4/2) Poorly sorted (F→C) SAND w/ silt	
2	0.6	5'/5'	Alluvial		2-5½ ft yellowish Brown (10YR 5/6) Poorly sorted (F→C) SAND w/ SR→WR gravel (up to 3 in.)	
3	0.9					
4	1.2					
5	1.5	5-10'				
6	1.8		▽		5½-21 ft brownish yellow (10YR 6/6) Clayey SILT w/ (VF-M) Sand & WR gravel (up to 4 inch)	
7	2.1	4.5'/5'				
8	2.4					
9	2.7					
10	3.1	10-15'				
11	3.4					
12	3.7	4'/5			Coarsening ↳ (M→C) Sand	
13	4.0					
14	4.3					
15	4.6	15-20'				
16	4.9					
17	5.2	1'/5'				
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

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BORING NO. 7028

Date Started: 9-25-13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 9-25-13 Driller: J. Triepke Survey Unit: 77 WKW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25'				
21	6.4				21-23.5 ft light gray (2.5YR 7/1)	
22	6.7	4.5'/5'			Clay w/ Rock frags (upto 1½ in)	
23	7.0				Rock frags increase w/ size.	
24	7.3				Weathered Rome	
25	7.6				Boring terminated @ 25 ft bgs.	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7029

Date Started: 9-24-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-24-13 Driller: J. Triepke Survey Unit: 7+7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
			Fill		0-1 ft moist brown (10YR 4/3) Silty F-M SAND	
1	0.3		Alluvial		1-3 ft moist Pale Yellow (2.5YR 7/4) Well sorted Med SAND	
2	0.6	5/5				
3	0.9				3-4 ft Light Gray (10YR 7/2) moist Clay w/ F-VF Sand	
4	1.2				4-9½ ft gray (2.5YR 6/1) wet Poorly Sorted F-C Sand w/ SR-WR gravel (up to 5in.)	
5	1.5			▽		
6	1.8					
7	2.1	4/5				
8	2.4					
9	2.7					
10	3.1				9½-19 ft yellowish Brn (10YR 5/6) saturated, M-C PS SAND w/ SR-WR gravel (up to 6in)	
11	3.4					
12	3.7	4/5				
13	4.0					
14	4.3					
15	4.6					
16	4.9	4/5			Coarsening	
17	5.2					
18	5.5					
19	5.8				Weathered Rome	
20	6.1				Boring terminated @ 20' bgs	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7030

Date Started: 10·8·13 Drilling Contractor: Cascade Page 1 of 2

Date Completed: 10·8·13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: mini Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		0.5 ft	Fill		0-½ ft gravel	
1	0.3	5'	Alluvial		½-3½ ft yellowish brown (10YR 5/8) (VF-F) SAND w/ SR gravel (upto 1½in)	
2	0.6					
3	0.9					
4	1.2	5'			3½-4 ft light gray (10YR 7/2) CLAY 4-4½ ft light gray clayey (VF) SAND 4½-5 ft light gray CLAY	
5	1.5	5-10 ft			5-8 ft very pale brown (10YR 7/3) (F) SAND w/ some (VF/M) sand & SR-WR gravel (upto 2in)	
6	1.8					
7	2.1	5'	▽		· Coarsening w/ (F-M) sand	
8	2.4				8-10 ft brown (10YR 5/3) silty (VF) SAND	
9	2.7	5'				
10	3.1	10-15 ft			10½-11 ft light gray & dk gray sandy CLAY 11-12 ft very pale brn (10YR 8/4) silty (F-M) SAND w/ grave 12-14 ft dark gray (10YR 4/N) clayey (VF) SAND	
11	3.4					
12	3.7	4½'				
13	4.0					
14	4.3	5'			14-20 ft yellowish brown (10YR 5/6) Clayey (M) SAND w/ (VF) sand & silt & WR gravel (upto 4in)	
15	4.6	15-20 ft				
16	4.9					
17	5.2	4'				
18	5.5					
19	5.8	5'				
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7030

Date Started: 10.8.13 Drilling Contractor: Cascade Page 2 of 2

Date Completed: 10.8.13 Driller: J. Triepke Survey Unit: 7

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
		20-25			20-20½ ft light gray (10YR 7/1) CLAY w/ rock frags	
21	6.4	4½'			20½ ft Weathered Rome	
22	6.7					
23	7.0					
24	7.3	5'				
25	7.6				Boring terminated at 25 ft bgs	
26	7.9					
27	8.2					
28	8.5					
29	8.8					
30	9.2					
31	9.5					
32	9.8					
33	10.1					
34	10.4					
35	10.7					

Additional Comments:

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7031

Date Started: 9-24-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-24-13 Driller: J. Triepke Survey Unit: 7L7 WKW 10-4-13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
			Fill		0-1½ ft Wet→Moist Red (2.5 YR 4/6) CLAY w/silt & organics	
1	0.3				↓	
2	0.6	4/5			1½-3½ ft Very dark Gray (2.5Y 3/1) F sandy SILT & Wood Frags (mulch)	
3	0.9				↓	
4	1.2		Alluvial		3½-4 ft dark gray Bm (10YR 4/2) silty SAND 4-7½ ft Light gray (10YR 7/2) Moist F-M SAND w/ gravel (up to 2 inch)	
5	1.5		▽		↓	
6	1.8					
7	2.1	4/5				
8	2.4				7½-17½ ft dark gray (10YR 4/1) Saturated WS VF SAND, sl. micaceous	
9	2.7					
10	3.1				VF-F Sand	
11	3.4				w/ gravel (up to 3in.) USE-WR	
12	3.7	1.5/5				
13	4.0					
14	4.3					
15	4.6					
16	4.9	2.5/2.5			(Coarsening F-M sand)	
17	5.2					
18	5.5	2.5/2.5			17½-18 ft Light gray (10YR 7/1) CLAY w/ rock fragments	
19	5.8				18 ft-20 ft Weathered Rock	
20	6.1				Boring terminated 20 ft BGS.	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

SOIL BORING RECORD

NFS - Survey Unit 7 Subsurface Characterization

AMEC Project 9120-07-1235

amec

BORING NO. 7032

Date Started: 9-24-13 Drilling Contractor: Cascade Page 1 of 1

Date Completed: 9-24-13 Driller: J. Trieple Survey Unit: 7 + 7 WKW 10.4.13

Logged By: K. Weir Equipment: Mini-Sonic Elevation:

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA/ UNIT	USCS	DESCRIPTION	SAMPLES COLLECTED
			Fill		0-1 ft Red (2.5YR 4/6) CLAY w/ silt & organics	
1	0.3	4½/5'			1-2½ ft Very dark Gray (2.5Y 3/1) Silty (F) SAND & organics	
2	0.6					
3	0.9		Alluvial		2½-9 ft yellowish Brn (10YR 5/4) Poorly Sorted (F→C) SAND w/ SR-WR gravel (up to 3inch).	
4	1.2					
5	1.5					
6	1.8	5'/5'				
7	2.1				Coarsening ↳ (M→C) sand, WR gravel (up to 4 in.)	
8	2.4					
9	2.7				9-12 ft brownish yellow (10YR 6/6) Well sorted (F) SAND w/ Trace gravel (up to 1½ inch)	
10	3.1					
11	3.4					
12	3.7	4'/5'			12-13½' dark yellowish brown (10YR 4/4) Saturated Poorly sorted (M→C) SAND w/ WR gravel (up to 2in)	
13	4.0					
14	4.3				13½-16 dark yellowish Brown (10YR 4/4) (VF→F) SAND w/ trace WR gravel	
15	4.6					
16	4.9	5'/5'			16-18 ft yellow (10YR 7/6) Clay w/ rock frags	
17	5.2					
18	5.5				Weathered Rome	
19	5.8					
20	6.1				Boring Terminated @ 20 ft bgs	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

Appendix D.4

Soil Boring Logs

Survey Unit 12

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-292

Date Started: 6/15/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/15/11 **Driller:** Jeremy Triepke **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0-4.5' dark brown (7.5YR 3/2) clayey fine SAND, some SA-SR gravel and coarse sand, moist, some organics
1	0.3				
2	0.6	5.0'/5.0'	Alluvium	SC	
3	0.9				
4	1.2				4.5'-10.0 greenish gray (GLEY1 6/10Y) plastic SILT w/ some angr.-sized shale fragments, moist, weathered Rome Formation
5	1.5	5'-10'		MH	
6	1.8		Residuum		
7	2.1	4.7'/5.0'			grades to brownish yellow (10YR 5/6)
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0293

Date Started: 11/12/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/12/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			0'-5' si gr f-c SAND, moist, light
1	0.3		Alluvial	SW	olive brown (2.5Y 5/3)
2	0.6	100%			gr is f-c & SA-SR Micaceous
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5		▽		5'-9.8' si f-m SAND, wet, dark
6	1.8	5'-10			trace of gr & c sand, Micaceous, gr is f & SA-SR Alluvial
7	2.1	100%		SM	
8	2.4				
9	2.7				
10	3.1				9.8'-13' gr cl SILT, moist, light olive gray
11	3.4	10'-15'			(5Y 6/2) gr is A. shale
12	3.7		Residuum	ML	Weathered Rome Fm
13	4.0	100%			13'-15' GRAVEL (Bedrock) Dry
14	4.3		Bedrock	GW	very pale brown (10YR 7/4)
15	4.6				gr is A. shale (+HCl reaction) Immersed — Rome Formation
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0294

Date Started: 11/12/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/12/07 **Driller:** JAMES ROBINSON **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** MINISONIC #1902 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			
1			Alluvial	SW	0'-7.5' si, gr, f-c SAND, moist-wet, yellowish brown (10YR 5/4), gr is f-c ∑ SA-SR Alluvium
2	0.6	100%			
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5	5'-10'	▽		
6	1.8				
7	2.1	100%			
8	2.4				7.5'-11' gr, si, CLAY, moist, light yellowish brown (10YR 6/4), laminations — Weathered Rome
9	2.7		Residuum	CL	
10	3.1	10'-15'			
11	3.4	3/5'			11'-16.5' gr, cl, SILT, moist, light yellowish brown, laminated Al shale — Weathered Rome Fm
12	3.7			ML	
13	4.0				
14	4.3				
15	4.6	15'-18'			
16	4.9				16.5'-18' GRAVEL (Bedrock) dry, light yellowish brown, gr is Al. shale — Rome Fm
17	5.2		Bedrock	GW	
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0295

Date Started: 11/12/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/12/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'	Fill	ML	0'-2.5' gr sa cl SILT, moist, grayish brown (10YR 5/2), gr is A.
1	0.3				
		100%	RC 11/12/07		2.5'-13' cl, si, gr, f-c SAND, wet, grayish brown - brown (10YR 5/3) gr is f-c to SA-SR Alluvium
2	0.6				
		2.5-5'	FILL	SW	
3	0.9				
4	1.2	100%	▽		
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1				
		10'-15'	Alluvial		
11	3.4				
12	3.7				
13	4.0	100%			13'-15' cl, gr, SILT, moist, brownish yellow (10YR 6/8) gr is A.
14	4.3		Residuum	ML	shale - Weathered Rome Fm.
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-296

Date Started: 6/15/11	Drilling Contractor: Boart Longyear	Page 2 of 2			
Date Completed: 6/15/11	Driller: Jeremy Treaplue	Survey Unit: 12			
Logged By: [illegible]	Equipment: Minisonic	Elevation: TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				
22	6.7	3.8'			
23	7.0	/5.0'			
24	7.3				
25	7.6	25'-30'			brownish yellow (10YR 6/6) elastic SILT w/ ang. gr-sized shale fragments, Weathered Rome Formation
26	7.9	25'/2.5'	Residuum	MH	
27	8.2	27.5'			Terminate Boring @ 27.5'
28	8.5				
29	8.8				
30	9.2				
31	9.5		RMC 6/15/11		
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-296

Date Started: 6/15/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/15/11 Driller: Jeremy Triepke Survey Unit: 12

Logged By: Rodney Clark Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0.0'-5.0'		SC	yellowish brown (10YR 5/4), clayey f-c SAND w/ some SA-SR gravel, moist, alluvium, gr. up to 2" in ⌀
1	0.3		Alluvium		
2	0.6	2.5'/5.0'			
3	0.9		WT@4' bgs ▽		
4	1.2				SAA except olive gray (5Y 5/2) & wet gravel up to 4" in ⌀
5	1.5	5.0'-10.0'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			SAA except gray 5Y 5/1 & saturated
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				< poor recovery
17	5.2	1.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 029-7 ~~029~~ RC 11/14/

Date Started:	11/14/07	**Drilling Contractor:**	BOART LONGEAR	**Page**	1 of 1
Date Completed:	11/14/07	**Driller:**	JAMES ROBINSON	**Survey Unit:**	12
Logged By:	Rodney Clark	**Equipment:**	MINISONIC #1402	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SM	0'-3' si, f-m SAND, wet, dark gray (10YR 4/1), trace of gr f-c & SR roots observed, micaceous
2	0.6		▽		
3	0.9	3.5'/5'			3'-7' si, f-c SAND, wet, gray (5Y 5/1) trace of A-SR and f-c gr alluvium micaceous, loose, soft drilling
4	1.2			SW	
5	1.5	5'-10'	Alluvial		
6	1.8				
7	2.1	100%			7'-11' si, gr, f-c SAND - si, sa GRAVEL, wet, yellowish brown (10YR 5/6) gr is f-c & SR-UR alluvium
8	2.4			SW/GW	
9	2.7				
10	3.1	10'-15'			
11	3.4				11'-14' gr, si, SILT, moist, brownish yellow (10YR 6/6) gr is A. Shale - Weathered, Rome Fm
12	3.7		Residuum	ML	
13	4.0				
14	4.3				14'-15' GRAVEL (Bedrock) dry, weakened (2.5YR 5/2), gr is A. Shale = Rome Fm.
15	4.6		Bedrock	GW	
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0298

Date Started: 11/14/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/14/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	topsoil/Alluvial	SM	0'-1' si. f-m SAND, wet, grayish brown (10YR 5/2) trace gravel, abundant roots observed
2	0.6			SM	1'-6' si, f-m SAND, wet, gray (10YR 5/1) micaceous, trace of c. sand & gr.
3	0.9	4'/5'			
4	1.2		Alluvial		
5	1.5				
6	1.8	5'-10'			6'-7.5' si, gr, f-c SAND, wet, gray, micaceous, gr is f-c SA, WR alluvium
7	2.1				
8	2.4	100%			7.5'-13.5' gr, cl, SILT, moist, brownish yellow (10YR 6/8) gr is A. laminated shale - Weathered Rome Fm.
9	2.7				
10	3.1		Residuum	ML	
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13.5'-15' GRAVEL (Bedrock), gravel is A. laminated shale Rome Formation
14	4.3		Bedrock	GW	
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0299

Date Started:	11/9/07	**Drilling Contractor:**	BART LONGYEAR	**Page**	1 of 1
Date Completed:	11/9/07	**Driller:**	JAMES ROBINSON	**Survey Unit:**	12
Logged By:	Rodney Clark	**Equipment:**	MINISONIC #1402	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SW/SM	0'-2.5' si, gr, f-c SAND, moist, grayish brown (2.5Y 5/2), gr is f-c B of sub-ang alluvium mostly f-m quartz sand
2	0.6	100%	▽		
3	0.9	2.5'-5'			2.5'-9' SAA except greenish gray (GLEY 1 5/5G)
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1	100%			
8	2.4				
9	2.7				9'-15' cl, gr SILT, moist, light yellowish brown (2.5Y 6/4), gr is A laminated shale - weathered, Rare F-M
10	3.1	10'-15'			
11	3.4		Residuum	ML	
12	3.7				
13	4.0	100%			
14	4.3				
15	4.6				- Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0300

Date Started: 11/7/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
			Alluvial/Topsoil	SW	
1	0.3	0'-2.5'			0'-0.5' si, gr, f-c SAND, moist, brown (10YR 5/3), gr is A-SR, roots observed
2	0.6	100%	Alluvial	SM	micaceous
					0.5'-10' si, f-m SAND, wet, gray (2.5Y 5/1)
3	0.9	2.5'-5'			trace of A-SR gr., micaceous
					trace of course sand
4	1.2	100%			
5	1.5				
6	1.8	5'-10'			
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1				10'-11' SAA
		10'-15'			
11	3.4				11'-14' gr, SILT, wet-moist yellowish
12	3.7	100%	Residuum	ML	brown (10YR 5/6), gr. is A.
					laminated, fissle, shale
13	4.0				- Weathered Rome Fm
14	4.3				14'-15' Bedrock, (GRAVEL), dry,
			Bedrock	GW	light blue-gray (GLEY 2 7/10B)
15	4.6				gr is A. laminated, dolostone
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0301

Date Started: 11/9/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: [illegible] **Equipment:** MINISONIC #HH02 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5' 100%	Topsoil/ Alluvial	SW	0'-2.5' si gr, f-c SAND, wet, very dark grayish brown (10YR 3/2), gr is minimal, f-c, SA-SR, roots observed 0'-1', micaceous
2	0.6				
3	0.9	2.5'-5' 100%	Alluvial	SM	2.5'-10' si f-M SAND, wet, dark grayish brown (10YR 4/2), trace of gravel, ~c. sand, ~f-c ~SR, mostly f. quartz SAND, micaceous, loose (soft drilling)
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	2.5/5			
8	2.4				
9	2.7				
10	3.1	10'-15' 100%	Residuum	ML	10'-15' cl, gr, SILT, wet-moist, dark brown/yellow (10YR 6/8) gr is A. laminated Shale - Weathered, Rone Fm.
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-302

Date Started: 6/15/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/15/11 **Driller:** Jeremy Triepke **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0.0'-5.0'			0.0'-5.5'
1	0.3		Alluvium	SM	pale brown (2.5Y 6/3), silty, f-c SAND (SM), with some SA-SR gravel, gr. up to 2" in Ø, moist
2	0.6	3.5'/5.0'			wet @ appx 3.5' bgs, alluvium
3	0.9				
					color change @ 3.5' to brown 10YR 4/3
4	1.2				
5	1.5	5.0'-10.0'			
6	1.8				olive (5Y 5/4) laminated with brownish yellow (10YR 6/6)
7	2.1	5.0/5.0	Residuum	MH	elastic SILT (MH), some ang. gr-sized shale, some relict rock structure,
8	2.4				weathered Rome Fm.
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-303

Date Started: 6/14/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/14/11 **Driller:** Jeremy Triepke **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0.0-2.5' brown (10YR 5/3), clayey f-m SAND, few coarse sand and gr moist, gr is SA-SR
1	0.3				
2	0.6	4.5/5.0'			
3	0.9				2.5-5.0' light brownish gray (2.5Y 6/2) silty f-c SAND, moist, some SA SR gravel,
4	1.2			SM	
5	1.5	5'-10'			5.0-10.0' yellowish brown (10YR 5/4) clayey f-c SAND (SC) w/ some SA-SR gravel ≈ up to 3" in ⊖ alluvium
6	1.8			SC	
7	2.1	5.0/5.0'			
8	2.4				
9	2.7				
10	3.1				10.0'-14'
11	3.4	10'-15'	10.5 Residuum	MH	yellowish brown (10YR 5/6), elastic SILT (MH), some angular gr-sized shale fragment, weathered Rome Formation
12	3.7				
13	4.0				14'-15' Shale/Rome Formation
14	4.3		Bedrock	Shale	
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-304

Date Started: 6/14/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/14/11 **Driller:** Jeremy Triepke **Survey Unit:** 12

Logged By: [illegible] **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3			SM	brownish yellow (10YR 5/6), silty, f-c SAND (SM) w/some SA-SR gravel, moist, alluvium
		3.0'/5.0			gr. up to 1" in ⌀
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			olive (5Y 5/3) clayey f-c SAND
6	1.8			SC	(SC), wet, some SA-SR gravel
					gr up to 4" in ⌀
7	2.1	3.0'/5.0			
8	2.4				
9	2.7				
10	3.1	~~10-15~~			brown (7.5YR 5/3) lean SILT (ML)
11	3.4		Rock	ML	w/some fine-c sand, trace SA-SR gravel, wet
12	3.7	5.0'/5.0'			
13	4.0		Residuum	MH	yellowish brown (10YR 5/4) elastic SILT (MH), some angular shale gravel
14	4.3			Rock	some relict rock structure
					Weathered Rone Formation
15	4.6				
					Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0305

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-10'	Alluvial	SM/SW	0'-7' si. f-m SAND, wet, gray (10YR 5/1) trace-some gr. & c. sand; gr. is f-c SA-SR alluvium, micaceous, mostly f-m quartz sand
2	0.6				
3	0.9				
4	1.2				
5	1.5	7/10			
6	1.8				
7	2.1				(7'-13.5') sgr. cl. SILT, light greenish gray (GLEY 1 7/10 GY) gr. is A. dolostone - Weathered Bone Fm.
8	2.4		Residuum	ML	
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13.5'-15' gr. cl. SILT, moist, brownish yellow (10YR 6/8) gr. is A. laminated shale - Weathered Bone Fm.
14	4.3				
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0306

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #4102 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SM/SW	0'-6' si, f-m SAND, wet, gray (10YR 5/1) trace-some gr. & c. sand, gr. is SA-SR & tin, micaceous, mostly f. quartz sand.
2	0.6	100%	▽		
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5	5'-10'			
6	1.8			SW	6'-7.5' si, Gr, f-c SAND, wet, gray gr. is f-c & SA-SR Alluvium micaceous.
7	2.1				
8	2.4	100%	Residuum	ML	7.5'-8.5' - gr. cl, SILT, moist, brownish yellow (10YR 6/8) gr. is A. shale-Weathered Rone
9	2.7		Bedrock	GW	8.5'-10' - GRAVEL (Bedrock), dry, brownish yellow (10YR 6/6), gr. is A. shale - Rone Formation
10	3.1				
11	3.4				
12	3.7				Terminate Boring @ 10'
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0307

Date Started: 11/13/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'	W.T. 15' or rock surface	SM/SW	0'-7' si, f-m SAND, wet, gray (10YR 5/1), trace-some gr. & c. sand, mostly f-m quartz sand, micaceous
1	0.3				
		1/2.5'			
2	0.6				
		2.5'-5'			
3	0.9				
		1/2.5'			
4	1.2				
		5'-10'			
5	1.5				
		100%			
6	1.8				
				SW	7'-11.5' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6) gr. is f-c & SA-WR mostly c. quartz sand
7	2.1				
8	2.4				
9	2.7				
		10'-15'			
10	3.1				
11	3.4				
		100%	Residuum	ML	11.5'-14.5' gr. d. SILT, mostly brownish yellow (10YR 6/8), gr. is A, laminated shale -Weathered Rome Fm
12	3.7				
13	4.0				
14	4.3				14.5'-15' Hard drilling - SAA except weak red (7.5YR 4/2) & more consolidated -Weathered Rome
15	4.6				
16	4.9				
17	5.2				Terminate Boring @ 15'
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0308

Date Started: 11/9/07 **Drilling Contractor:** BOART LONG **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: [illegible] **Equipment:** MINISONIC #1102 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Topsoil/Alluvial	SW	0'-1' - si, gr, f-c SAND, dark grayish brown (2.5Y 4/2) gr is f-m & SR moist Alluvium, micaceous, roots observed
2	0.6	100%	∅	SW/SM	
3	0.9	2.5'-5'	Alluvial		1'-10' si, gr, f-c SAND, wet, olive gray 5Y 4/2, micaceous, mostly f. quartz sand, gr is f-c & SR-WR
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1	3/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'		ML	10'-15 d, gr, SILT, moist, brown & yellow (10YR 6/8) gr is ~~f-c & SR-WR~~ 11/9/07 A. laminated shale
12	3.7	100%	Residuum		Weathered Rone Fm
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0309

Date Started: 11/9/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SM	0'-2' si, f-m SAND, moist, very dark grayish brown (2.5Y 3/2), roots observed, micaceous
2	0.6	100%	Topsoil		
3	0.9	2.5'-5'	Alluvial		2'-7' si, f. SAND, wet, dark grayish brown (2.5Y 4/2), trace of gr. & c sand, micaceous,
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1			SW	7'-11' si, gr, f-c SAND, wet, grayish brown (2.5Y 5/2) gr is f-c ≠ A-SR Alluvium
8	2.4				
9	2.7				
10	3.1	10'-15'			11'-15' cl, gr, SILT, wet-moist, brownish yellow (10YR 6/6), gr. is A. Shale — Weathered Rome Fm.
11	3.4				
12	3.7	100%	Residuum	ML	
13	4.0				
14	4.3				
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0310

Date Started: 11/12/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/12/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC # 1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			0'-3.5' si, f-m SAND, mostly gray (GLEY1 5/N),
1	0.3		Alluvial	SM	trace of c. sand & gravel
2	0.6	100%			mostly quartz f. sand
3	0.9	2.5'-5'			
			▽		3.5'-5' si, gr, f-c SAND, wet, gray,
4	1.2	100%		SW	gr is f-c & SR-WR & mostly
					f. quartz sand
5	1.5	5'-10'			5'-9.5' si, gr, f-c SAND, wet, yellowish brown
6	1.8				(10YR 5/4), gr is f-c & SR-WR
					Alluvial
7	2.1	100%			
8	2.4				
9	2.7				
					9.5'-10' GRAVEL (Bedrock) dry, grayish
10	3.1		BEDROCK	GW	brown (2.5Y 5/2) gravel, is fr.
					shale/dolostone (+HCl Reaction)
11	3.4				of Rome Formation
12	3.7				Terminate Boring @ 10'
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0311

Date Started: 11/8/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SM	0'-9' Si, f-m SAND, moist - wet, grayish brown (10YR 5/2), trace of c. sand & gr., very micaceous, mostly f. quartz sand
2	0.6	100%			
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			
9	2.7				9'-15 c/gr. SILT, moist, brownish yellow, (10YR 6/8), gr. is A. laminated, fissile, shale - weathered bone fragments
10	3.1		Residuum	ML	
11	3.4	10'-15			
12	3.7				
13	4.0	100%			
14	4.3				
15	4.6		Bedrock	GW	Hard drilling @ 15' Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0312

Date Started: 11/9/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC HH402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			0'-2.5' si. gr. f-c SAND, moist, yellowish brown (10YR 5/6). gr is f-c & SUB-RND, mostly f-m quartz sand.
1	0.3			SW	
2	0.6	100%	Alluvial		
3	0.9	2.5'-5'		SM	2.5'-5' si. f-m SAND, wet → gray (2.5Y 5/1) mostly quartz sand, micaceous trace of gr & c-sand.
4	1.2	100%			
5	1.5				5'-7' SAA except light yellowish brown (10YR 6/4)
6	1.8	5'-10			
7	2.1	100%			7'-14' SAA except dark gray (2.5Y 4/1)
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			
14	4.3				14'-15' cl. gr. SILT, wet → moist, light yellowish brown (2.5Y 6/4) gr. is A laminated shale — Weathered Rome Formation
15	4.6		Residuum	ML	
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-313

Date Started: 6/15/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/15/11 **Driller:** Jeremy Triephe **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-3.0'
1	0.3		Alluvium	SC	very dark gray (2.5Y 3/1), clayey fine SAND (SC) w/ some SA-SR
2	0.6	4.0'/5.0'			gravel, FILL MATERIAL
3	0.9		WT @ 3.5'		3.0'-5.0' light yellowish brown (2.5Y 6/4)
4	1.2			SM	silty, f-c SAND w/ some SA-SR gravel, moist
5	1.5	5'-10'			SAA except saturated
6	1.8				
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				light olive brown (2.5Y 5/4)
		10'-15'			sandy fat CLAY (CH), moist, some
11	3.4			CH	gr. SA-Ang. few shale
12	3.7				fragments
		5.0'/5.0'			reddish yellow (7.5YR 6/8) elastic
13	4.0			MH	SILT (MH), moist, some ang.
14	4.3		Residuum		gr. sized shale fragments, Weathered Rome Formation
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0314

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC HYDR **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	W.T. near surface		
1	0.3		Alluvial	SW	0'-10' si, gr, f-c SAND wet gray (10YR5/1), gr. is f-c P SR-WR alluvium
2	0.6				
3	0.9	100%			
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	3'/5'			
8	2.4				
9	2.7				
10	3.1				10'-13' gr, cl, SILT, moist, brownish yellow (10YR6/8) gr. is A. dolostone
		10'-15'			
11	3.4			ML	
12	3.7		Residuum		
		100%			
13	4.0				13-15' Bedrock - GRAVEL, olive light greenish gray GLEY 1 (7/10GY), gr. is A. dolostone - Rome Fm.
14	4.3		Bedrock	GW	
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0315

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT ▽	USCS	DESCRIPTION
1	0.3	0'-5'	W.T near or at surface	SW	0'-7' si gr, f-c SAND, wet, gray (10YR 5/1), gr is f-c & SA-SR alluvium
2	0.6				
3	0.9	100%			
4	1.2		Alluvial		
5	1.5				
6	1.8	5'-10'			
7	2.1	4'/5'			7'-10' SAA except brown (10YR 5/3)
8	2.4				
9	2.7				
10	3.1				
11	3.4	0'-15'		SM	10'-15' si, f-m SAND, wet, light brownish gray (10YR 6/2), trace of gr & c. sand, micaceous loose
12	3.7	2'/5'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'	Residuum	ML	15'-20' si, cl, GRAVEL, moist, brownish yellow (10YR 6/8) gr. is A shale - Weathered Rome Fm
17	5.2	100%			
18	5.5				Hard Drilling 18'-20'
19	5.8				Residuum slightly consolidated
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0316

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	w/7 near surface Alluvial	SW	0'-7' sl, gr f-c SAND wet, grayish brown (10YR 5/2) gr is f-c P SR-WR alluvium gr
2	0.6				
3	0.9	100%			
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4'/5'			7'-10' SAA except yellowish brown (10YR 5/6)
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-15' sl, gr, SILT, moist, brownish yellow (10YR 6/8) & weak red (2.5YR 5/2) gr is A. laminated shale — Weathered Rock.
11	3.4			ML	
12	3.7		Residuum		
13	4.0	100%			
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0317

Date Started: 11/14/07	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 11/14/07	**Driller:** James Robinson	**Survey Unit:** 12	
Logged By: Rodney Clark	**Equipment:** Minisonic #1402	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4.5' si, gr, f-c SAND, wet, gray-grayish brown (10YR 5/1 & 5/2), gr is f-c & SA-SR - alluvium
2	0.6				
3	0.9	100%			
4	1.2				4.5'-5' SAA except yellowish brown (10YR 5/6)
5	1.5	5'-10'		SW/GW	5'-8' si, gr, f-c SAND + si, sa GRAVEL wet, brown (10YR 5/3), gr is f-c & SA-VR alluvium
6	1.8				
7	2.1				
8	2.4	100%	Residuum	ML	8'-9' gr, sl, SILT, moist, brownish yellow (10YR 6/8), gr is A. shale - Weathered Rove Fm
9	2.7		Bedrock	GW	9'-10' GRAVEL (Bedrock), dry, weak red (2.5YR 5/2), gr is A. Shale Rove Formation
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0318

Date Started: 11/9/07 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5' 100%	Alluvial Deposit	SW	0'-1' si, gr, f-c SAND, moist, very dark grayish brown (2.5Y 3/2), gr is f-c & SA-SR Alluvium, micaceous roots observed
2	0.6		Alluvial		
3	0.9	2.5'-5'			1'-3' SAD except no roots & grayish brown (2.5Y 5/2)
4	1.2	100%		SM	3'-7' si, f-m SAND, wet, black gray (GLEY 2 5/1), micaceous, trace of m-c sand & f gravel, gr is SA-SR Alluvium
5	1.5				
6	1.8	5'-10'			
7	2.1				7'-9' si, gr, f-c SAND, wet, bluish gray, micaceous, gr is SR-WR Alluvium
8	2.4	100%		SW	
9	2.7				9'-10' cl, gr, SILT, wet, brownish yellow (10YR 6/8), gr is A Shale — Weathered Rome Formation
10	3.1		Residuum	ML	
11	3.4	10'-15' Rc			Terminate Boring @ 10
12	3.7	11/9/07			
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0319

Date Started: 11/9/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial/Erosional	SW/SM	0'-7' si. gr. f-c SAND, wet, dark grayish brown (2.5Y 4/2), gr is f ~ A-SR, alluvium, micaceous, roots observed 0'-1' trace ~~of~~ some gl. c. sand, mostly fn quartz SAND
2	0.6				
3	0.9	2.5'-5'	Alluvial		
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1	100%		SW	7'-13' si. gr. f-c SAND, wet, yellowish brown (10YR 5/6) gr is f-c ~ A-SR Alluvium
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	100%			
13	4.0				13'-15' d. gr. SILT, moist, brownish yellow (10YR 6/8) gr is A laminated shale
14	4.3		Residuum	ML	Weathered Rome FM.
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0320

Date Started: 11/12/2007 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/12/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'	Topsoil		0'-2 si, gr, f-c SAND, moist, grayish brown
1	0.3			SW	(10YR 5/2) micaceous, roots observed
		100%	Alluvial		gr is SR-SR, ~f-c
2	0.6				2'-4.5' si, f-m SAND, wet, gray (2.5Y 5/1)
		2.5'-5'	Alluvial		micaceous, trace of gr ~c sand
3	0.9			SM	mostly quartz f-m SAND
4	1.2	100%	▽		4.5'-5.5' si, gr, f-c SAND, wet, gray,
5	1.5			SM	micaceous
		5'-10'			
6	1.8			SM	5.5'-8' si, f-m SAND, wet, gray
					micaceous
7	2.1				
		100%			
8	2.4				8'-9' si, sa, GRAVEL, wet, gray,
9	2.7			GW	gr is SR-WR ~f-c
				SW	9'-13' si, gr, f-c SAND, wet, yellowish
10	3.1				brown (10YR 5/6) gr is SR-WR
		10'-15			~f-c alluvial
11	3.4				
12	3.7				
		100%			
13	4.0				13'-15' gr, cl, SILT, moist, light yellowish brown
14	4.3		Residuum	ML	(10YR 6/4), gr is A. laminated
					fissile shale, - weathered
15	4.6				Rome FM.
					Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

MACTEC

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0321

Date Started: 11/7/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SM	0'-8' si, f-m SAND, moist-wet, bluish gray (GLEY 2 5/5B), trace-some gr. & C. sand, gr is SA-SR, very micaceous.
2	0.6	100%	▽		
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			
9	2.7			SW	8'-9.5' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6), gr is f-c & SR-VP
10	3.1		Residuum	ML	
11	3.4				9.5'-10' gr, SILT, moist, brownish yellow (10YR 6/8), gr is Angular
12	3.7				laminated shale — Weathered Rome Fm.
13	4.0				Terminate Boring @ 10'
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0322

Date Started: 11/7/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5' 100%	Alluvial	SW	0'-3.5 si f-m SAND, wet-moist, pale brown (10YR 6/3) trace-some c. sand & gravel, SR-WR, very micaceous
2	0.6				
3	0.9	2.5'-5'	▽		3.5'-10' SAA except bluish gray (GLEY 2 5/5B)
4	1.2	100%			
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1				10'-13' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6), gr. is f-c & SR-WR Alluvium
11	3.4	10'-15'		SW	
12	3.7	100%			
13	4.0				13'-15' gr, SILT, moist, brownish yellow (10YR 6/8) gr. is fragmented Shale - Weathered Rock Fm
14	4.3		Residuum	ML	
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0323

Date Started: 11/14/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/14/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINSONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Topsoil/Alluvium	SM/SW	0'-5' si, gr f-c SAND, wet brown (10YR 5/3) trace-some gr, gr is f-c ⊕ SA-SR alluvium micaceous, roots observed 0-1'
2	0.6		Alluvium		
3	0.9	100%			
4	1.2				
5	1.5			SW	5'-8' si gr f-c SAND, wet grayish brown (2.5Y 5/2), gr. is f-c ⊕ SA-SR alluvium
6	1.8	5'-10'			
7	2.1	100%			
8	2.4				8'-10' SAA except yellowish brown (10YR 5/6)
9	2.7				
10	3.1	10'-15'		SW/GW	10'-14.5' si, gr f-c SAND-si, sa GRAVEL wet, yellowish brown, gr is f-c ⊕ SA-SR alluvium
11	3.4				
12	3.7	100%			
13	4.0				
14	4.3				14.5'-15' gr, cl, SILT, moist, brownish yellow (10YR 6/8) gr is A. laminated shale — Weathered Rock Fr.
15	4.6		Residuum	ML	
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0324

Date Started: 11/7/07 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5' 100%	Alluvial	SW	0'-5' si, gr, f-c SAND, wet yellowish-brown (10YR 5/6) gr is f-c & SA-WR micaceous
2	0.6				
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5				5'-10' si, gr, f-c SAND, wet, yellowish brown, gr is f-c & SR-WR
6	1.8	5'-10'			
7	2.1	4/5'			
8	2.4				
9	2.7				
10	3.1				10'-13' si, sa, GRAVEL, wet, yellowish brown gr is f-c & SR-WR
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13'-15' gr, SILT, wet-moist, brownish yellow (10YR 6/8), gr is ~~fo~~ laminated & ~~SHALE~~ ~~Alluvium~~ RC 11/7/07
14	4.3		Residuum	ML	
15	4.6				Shale - Weathered Rome Fm.
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0325

Date Started: 11/7/07 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			
1	0.3	100%	Alluvial	SW	0'-9' si gr f-c SAND, wet yellowish brown (10YR 5/6) gr is f-c & SR-WR
2	0.6		▽		
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1		Bedrock	GW	9'-10' Weathered Rome - Bedrock GRAVEL is A. dolostone of Rome Formation
11	3.4				Terminate Boring @ 10'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0326

Date Started: 11/9/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/9/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'		SW	0'-4' si, gr, f-c SAND, wet, light olive brown (2.5Y 5/3) gr is f-m # SA-WR Alluvium
2	0.6	100%			
3	0.9	2.5'-5'			
4	1.2	100%			4'-8' SAM except gr is f-coarse
5	1.5	5'-10'			
6	1.8				
7	2.1				
8	2.4				8'-11' si, gr, f-c SAND, wet, yellowish
9	2.7				brown (10YR 5/6) gr is f-c # SR-WR
10	3.1	10'-12'			
11	3.4	100%	Bedrock	GW	11'-12' Bedrock - GRAVEL, wet,
12	3.7				brownish yellow (10YR 6/8) gr is A. Shale - Rome Fm.
13	4.0				Terminate Boring @ 12' (Hard Drilling)
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0327

Date Started: 11/8/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			0'-9.8'
1	0.3		Alluvial	SW	5'; gr. f-c SAND wet, brown (10YR 5/3)-light olive brown (2.5Y 5/3), micaceous, gr. is f-c ß
		1.5/2.5'			SA - WR
2	0.6				
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1		Residuum	ML	9.8' 10' gr. SILT, moist, brownish yellow (10YR 6/8) gr. is A. laminated, Shale - Rome Fm.
			Bedrock		Hard Drilling @ 10' (possible Bedrock)
11	3.4				
					Terminate Boring @ 10'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0328

Date Started: 11/8/07 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SW	0'-3.5' SW, gr, f-c SAND, wet, light olive brown (2.5Y 5/3), gr is f-c & SA-SR Alluvium
2	0.6	100%			
3	0.9	2.5'-5'			3.5'-5' SAA except yellowish brown (10YR 5/6)
4	1.2	100%			
5	1.5	5'-10'			5'-12' SAA except micaceous & light olive brown & less gr.
6	1.8				
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	100%	Residuum	ML	12'-15' gr, SILT, wet-most, brownish yellow (10YR 6/8), gr is A. laminated shale = Weathered Rome Fm.
13	4.0				
14	4.3				
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0329

Date Started: 11/7/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			
1	0.3			SM	0'-3.5' si, f-m SAND, moist, brown (10YR 5/3) trace-some gr., gr. is f # SA-SR
2	0.6	100%	Alluvial		alluvium, very micaceous
3	0.9	2.5'-5'			3.5'-7' si, gr, f-c SAND, wet, moist, dark bluish gray (GLEY 2 4/1), gr is f-c # SR-WR Alluvium
4	1.2	100%	▽	SW	very micaceous.
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			7'-12.5' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6), increase in gr, gr. is f-c # A-SR Alluvium
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	100%			12.5'-15' gr, SILT, moist, brownish yellow (10YR 6/8), gr is A, laminated, Shale - Weathered Rone Fm
13	4.0				
14	4.3		Residuum	ML	terminate Boring @ 15'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0330

Date Started: 11/12/2007	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 11/12/2007	**Driller:** JAMES ROBINSON	**Survey Unit:** 12	
Logged By: Rodney Clark	**Equipment:** MINISONIC #1402	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Topsoil/Alluvial	SM	0'-3' si. f-m SAND, moist, light olive brown (2.5Y 5/3) trace of gr. & C. sand, micaceous, mostly f-m quartz sand, roots observed 0'-1'
2	0.6	100%	Alluvial		
3	0.9	2.5'-5'			
4	1.2	100%	▽		3'-6' si. f-m SAND, wet, dark gray (2.5Y 4/1) trace of gr. & C. sand, micaceous, mostly f-m quartz sand
5	1.5	5'-10'			
6	1.8				6'-8' ~~si. gr. f-c SAND~~ sa. GRAVEL, wet, dark gray, micaceous, gr. is f-c & SA-SR Alluvium
7	2.1			GW	
8	2.4	100%		SW	8'-13' si. gr. f-c SAND, wet, light olive brown (2.5Y 5/4), gr. is f-c & SA-SR
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7				
13	4.0	100%			13'-15' gr. cl. SILT, moist, brownish-yellow (10YR 6/6), gr. is f. shale
14	4.3		Residuum	ML	Weathered Rome Formation
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0331

Date Started: 11/14/07	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 11/14/07	**Driller:** JAMES ROBINSON	**Survey Unit:** 12	
Logged By: Rodney Clark	**Equipment:** MINISONIC #1402	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Topsoil/Alluvial	SM	0'-3' si, f-m SAND, wet, dark grayish brown (2.5Y 4/2), trace gr & c sand, micaceous roots observed 0'-1'
2	0.6		Alluvial		
3	0.9	3.5'/5'			3'-5' si, gr, f-c SAND, wet, brown (10YR 5/3) micaceous, gr is f-c & SR-SA alluvium
4	1.2			SW	
5	1.5				5'-7.5' si, f-m SAND, wet, light olive brown (2.5Y 5/3), trace gr. & c sand, micaceous, based soft drilling
6	1.8	5'-10'		SM	
7	2.1				
8	2.4	100%		SW/GW	7.5'-12.5' si, gr, f-c SAND - si, sa GRAVEL, wet, yellowish brown (10YR 5/6) gr is f-c & SA-WR alluvium
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				12.5'-15' gr cl SILT, moist, brownish yellow (10YR 6/8) gr is A shale. Shale is laminated, weak red (2.5YR 5/2) & fissile — Weathered Rome Formation
13	4.0	100%		ML	
14	4.3		Residuum		
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 9332 ~~9308~~ RC 11/9/07

Date Started:	11/9/07	**Drilling Contractor:**	BOART LONGYEAR	**Page**	1 of
Date Completed:	11/9/07	**Driller:**	JAMES ROBINSON	**Survey Unit:**	12
Logged By:	Rodney Clark	**Equipment:**	MINISONIC #402	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial/Topsoil	SW	0'-1' si, gr, f-c SAND, moist, dark grayish brown (2.5Y 4/2), gr is f-c & SR, roots observed
2	0.6	100%			
3	0.9	2.5'-5'	Alluvial	SM	1'-4' si, f-m SAND, wet, light olive brown (2.5Y 5/3), micaceous, trace gr & c. sand.
4	1.2	100%			
5	1.5			SW	4'-7' si, gr, f-c SAND, wet, light olive brown, gr is f-c & A-SR Alluvium
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			7'-14.5' SAA except yellowish brown (10YR 5/6)
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			
14	4.3				14.5'-15' dgr SILT, moist, brownish yellow (10YR 6/8) gr is A. laminated shale — weathered Rome Fm.
15	4.6		Residuum	ML	
16	4.9				Terminated Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0333

Date Started: 11/8/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SW	0'-4' sl, gr f-c SAND, moist-wet, yellowish brown (10YR 5/6), gr is f-c ∓ SA-SR, mostly f-m quartz sand, micaceous, roots observed 0'-2'
2	0.6	100%			
3	0.9	2.5'-5'			
4	1.2	100%			4'-7' sl, f-m SAND, wet, yellowish brown - light olive brown (2.5Y 5/3), micaceous, most quartz f. SAND
5	1.5	5'-10'		SM	
6	1.8				
7	2.1				7'-10 sl, gr, f-c SAND, wet, yellowish brown, gr is f-c ∓ SA-WR Alluvium
8	2.4	100%		SW	
9	2.7				
10	3.1				10'-13' sl, sa, GRAVEL, wet, yellowish brown, gr is f-c ∓ SR-WR Alluvium
11	3.4	10'-15		GW	
12	3.7				
13	4.0	100%			13'-14.5' cl gr, SILT, moist, brownish yellow 10YR 6/8 sgr is A. laminated Shale - Weathered Rome Fm.
14	4.3		Residuum	ML	
15	4.6		Bedrock	GW	14.5'-15' Shale, Rome Fm. Bedrock
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0334

Date Started: 11/8/07 **Drilling Contractor:** BART LONGPEAR **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1407 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SW/SM	0'-10' si, gr f-c SAND, wet, light olive brown (2.5Y 5/3), gr is f-c ≠ SR-WR alluvium, micaceous, mostly f-m quartz sand
2	0.6	100%			
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5	5'-10'			
6	1.8				
7	2.1	100%			
8	2.4				
9	2.7				
10	3.1				10'-11' si, sa, GRAVEL, wet, light olive brown gr is f-c ≠ SR-WR
11	3.4	10'-12'		GW	11'-12' ~~gr is f~~ sa, GRAVEL, dry, light yellowish brown (10YR 6/4) gr is A laminated shale - Rome Formation
12	3.7	100%	Bedrock	GW	
13	4.0				
14	4.3				Terminated Boring @ 12'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0335

Date Started: 11/7/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/7/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-2.5'	Alluvial	SM	0'-7' si, f-m SAND, wet, brown (10 YR 4/3) trace-some gr & c. SAND, gr is f-m & SA-SR, micaceous
2	0.6	100%	▽		
3	0.9	2.5'-5'			
4	1.2	100%			
5	1.5				
6	1.8	5'-10'			
7	2.1	2/5'		SW	7'-9' si, f-c SAND, wet, yellowish brown (10YR 5/4), trace-some gravel, gr. is SR-, micaceous, coarsening downwards
8	2.4				
9	2.7				
10	3.1	10'-15'			9'-13' si, gr, f-c SAND, wet, yellowish brown, gr. is f-c & SR-WR, micaceous
11	3.4				
12	3.7	100%			
13	4.0				13'-15' gr, SILT, moist, brownish yellow (10YR 6/8), gr is A shale - Weathered Rome Formation
14	4.3		Residuum	ML	
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0336

Date Started: 11/6/07 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-7' si, gr, f-c SAND, wet, yellowish brown (10YR 5/4) gr. is minimal, f, ~ SA-SR
2	0.6				
3	0.9	2'/5'			
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				7'-10' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6), gr is A-SR, ~ f-c
8	2.4	100%			
9	2.7				
10	3.1				10'-13' SAA except less gravel, mostly quartz f-c SAND.
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13'-15' gr, SILT, moist, brownish yellow (10YR 6/6), gr. is A laminated fissile shale - weathered Rome Formation
14	4.3		Residuum	ML	
15	4.6				
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0337

Date Started: 11/14/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/14/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'			0'-2.5' si, gr, f-c SAND, wet, dark gray (10YR 4/1)
1	0.3		Topsoil	SW	micaceous, some SR-SA f-c gr
		1/2.5'			roots observed
2	0.6		Alluvial		
		2.5'-5'			
3	0.9			SM/SW	2.5'-8' si, f-m SAND, wet, brown (10YR 4/3)
4	1.2	100%	Alluvial		micaceous, trace-some gr. f-c & SR-WR alluvium
5	1.5				
		5'-10'			
6	1.8				
7	2.1	100%			
8	2.4				8'-10' si, sa, GRAVEL, wet, brown,
9	2.7			GW	gr is f-c & A-WR alluvium
10	3.1				
		10'-15'		SW	10'-12' si, gr f-c SAND, wet, yellowish
11	3.4				brown (10YR 5/6) gr is f-c
					& SA-WR alluvium
12	3.7	100%			12'-15' gr. cl. SILT, moist, yellowish brown
13	4.0		Residuum	ML	(10YR 5/8), gr. is A. laminated
					shale. V-Weathered Rome Fm
14	4.3				
15	4.6				Hard drilling @ 15' (possible bedrock)
					Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0338

Date Started: 11/8/07 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 11/8/07 **Driller:** James Robinson **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** Minisonic #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-2.5'	Alluvial/ Topsoil	SW	0'-1' si, gr, f-c SAND, wet-moist, brown (10YR 4/3), gr is f-c & SA-SR, micaceous, mostly quartz f-m SAND, root observed
1	0.3	1/2.5'			
2	0.6		Alluvial		
3	0.9	2.5'-5'	▽		1'-4' SAA except light brownish gray (10YR 6/2)
4	1.2	100%			4'-10' si, gr, f-c, SAND, wet, yellowish brown (10YR 5/6) gr is f-c & SA-SR Alluvium
5	1.5	5'-10'			
6	1.8				
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1			SM	10'-15' si, f-m SAND, wet, brown (10YR 5/3) trace of c. sand, micaceous loose, mostly quartz f. SAND
11	3.4	10'-15'			
12	3.7	3/5'			
13	4.0				
14	4.3				
15	4.6			GW	15'-16.5' si, sa, GRAVEL, wet, yellowish brown, gr is SR-WR & f-c Alluvium
16	4.9	15'-20'			
17	5.2			ML	16.5'-20' dk, gr, SILT, wet-moist, brownish yellow (10YR 6/8) gr is A. laminated Shale Weathered Rome FM
18	5.5	100%	Residuum		
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0339

Date Started: 11/6/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' si, gr, f-c SAND, wet, olive (5Y 4/3), gr is f-c & SA-SR, micaceous
2	0.6				
3	0.9	3'/5'			
4	1.2				
5	1.5				5'-12.0' si, gr, f-c SAND wet, yellowish brown (10YR 5/4), gr is f-c & SR-WR
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7		Residuum		12.0'-12.5' gr, SILT, moist, brownish yellow (10YR 6/8) gr is A laminate shale weathered Rome Fm
13	4.0	100%			
14	4.3		Bedrock		12.5'-15' (Hard Drilling) GRAVEL, dry, weak red (10R 5/3) & olive yellow (2.5Y 6/6) A laminated Shale - Rome Formation
15	4.6				
16	4.9				
17	5.2				Terminate Boring @ 15'
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0340

Date Started: 11/6/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-10' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6), gr is f-c & SA-SR
2	0.6		▽		
		4'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
		4'/5'			
8	2.4				
9	2.7				
10	3.1				10'-13' si, sa, GRAVEL, wet, yellowish brown (10YR 5/6) gr is f-c & SR-WR
11	3.4	10'-15			
12	3.7			GW	
		100%			
13	4.0				13'-15' cl, gr, SILT, moist, brownish yellow (10YR 6/8), gr is A. laminated, shale weathered Rome Fm.
14	4.3		Residum	ML	
15	4.6				
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0341

Date Started: 11/13/07 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/13/07 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney Clark **Equipment:** MINISONIC GEHARD **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	FILL / Alluvial	SW	0'-6' si, gr, f-c SAND, wet, brown (10YR 5/3), gr is f-c & SR-WR alluvium
2	0.6				— Fill (0'-5') was put into place over spring to enable drilling @ location
3	0.9	4/5'			— Spring located @ appx. 5' depth
4	1.2				
5	1.5		SPRING!		
6	1.8	5'-10'	Alluvial	GW	6'-8' si, sa, GRAVEL, wet, brown, gr is f-c & SR-WR alluvium
7	2.1				
8	2.4	100%		SW	8'-11' si, gr, f-c SAND, wet, gray is L brown (10YR 5/2) gr is f-c & SR-WR alluvium
9	2.7				
10	3.1	10'-15'			
11	3.4				11'-15' gr, cl, SILT, moist, brown/yellow (10YR 6/8) gr is A. Shale
12	3.7	100%	Residuum	ML	— Weathered Rome Formation
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0342

Date Started: 11/6/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Topsoil / Alluvial	ML	0'-2' gr, sa, SILT, moist, light olive brown (2.5Y 5/4) roots observed, micaceous, gr. is A-SR Alluvium
2	0.6				2'-8' si, gr, f-c SAND, wet, olive (5Y 5/3), mostly f-m SAND, micaceous, gr. is f-c & A-SR Alluvium
3	0.9	3'/5'	▽	SW / SM	
4	1.2		Alluvial		
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	100%		SW	8'-13' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6) gr. is f-c & SR-WR Alluvium
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13'-15' gr, SILT, moist, brownish yellow (10YR 6/8), gr. is A. laminated Shale - weathered, Rome Formation
14	4.3		Residuum	ML	
15	4.6				
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0343

Date Started: 11/6/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Topsoil/ Alluvial	SW	0'-5' si, gr, f-c SAND, moist, brown (10YR 5/3), micaceous, mostly si, f-m SAND, some roots observed from 0'-2'
2	0.6				
3	0.9	3'/5'	Alluvial		
4	1.2				
5	1.5		▽		5'-8.5' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6) gr. is f-c SA-SA-SR
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			8.5'-15' si, f-m SAND, wet, light olive brown (2.5Y 5/3), trace of SA-SR, c. SAND, micaceous, loose (Soft drilling from 10'-15')
9	2.7			SM	
10	3.1				
11	3.4	10'-15'			
12	3.7	3'/5'			
13	4.0				
14	4.3				
15	4.6				15'-18.5' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6) gr. is f-c SR-WR Alluvium
16	4.9	15'-20'		SW	
17	5.2				
18	5.5	100%			18.5'-20' cl, gr SILT, moist, gr. is laminated, fissile, Shale - Weathered Rock, f-m.
19	5.8		Residuum	ML	
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0344

Date Started: 11/6/2007 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/6/2007 **Driller:** JAMES ROBINSON **Survey Unit:** 12

Logged By: Rodney M. Clark **Equipment:** MINISONIC #1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0'-5' si, gr, f-c SAND, moist, olive gray (5Y 4/2) micaceous, mostly f-m SAND & silt, gr is
2	0.6	3'/5'	Alluvial		
3	0.9				
4	1.2				
5	1.5		▽		5'-7' si, f-m SAND, wet, olive 5Y (4/3), trace of c. sand & gr, micaceous, gr is SR & f
6	1.8	5'-10'		SM	
7	2.1				
8	2.4	100%		SW	7'-13' si, gr, f-c SAND, wet, yellowish brown (10YR 5/6) gr is f-c & SA-WR
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	100%			13'-15' SAA except light yellowish brown, 10 YR 6/4 & increase in C. SAND.
14	4.3				
15	4.6				15'-18.5' si, sa, GRAVEL, wet, yellowish brown (10YR 5/6), gr is f-c & SR-WR Alluvium
16	4.9	15'-20'			
17	5.2			GW	
18	5.5	100%	Interface Alluvial/Residuum		18.5'-19' sa, cl, gr, SILT, moist, brownish yellow (10YR 6/8) gr is A. shale & SR-WR Alluvium
19	5.8		Residuum	ML	19'-20' cl, gr, SILT, moist, gr is A. laminated fissile shale - Weathered Rome Fm. Terminate Boring @ 20'
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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Appendix D.5

Soil Boring Logs

Survey Unit 16

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0384

Date Started: 8/15/08 **Drilling Contractor:** Dart Lafayette **Page** 1 **of** 2

Date Completed: 8/15/08 **Driller:** Mini Sonic **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** Justin Miller **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	Alluvial	SW-GW	0-24 Si. gr. f-c SAND to sa. GRAVEL, yellowish brown (10YR 5/6), gravel is SA to WR up to 2" ~~[illegible]~~ SK 8/15/08
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20 100%			
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0384

Date Started: 8/15/08 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/15/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25	Alluvial	SW-GW	SAA
21	6.4	100%			
22	6.7				
23	7.0				
24	7.3		Residuum	ML	24-25 weathered Rome dgr. SILT lt. gray (10 YR 7/2) and brownish yellow (10YR 6/8) gravel is angular shale up to 0.5" ø
25	7.6				
26	7.9				
27	8.2				Boring Terminated @ 25'
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0385

Date Started: 8/15/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/15/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 75%	Alluvial	SW-GW	0-14.5 sl. gr. SAND to sl. sa. GRAVEL, dark brown (7.5YR 3/4) gravel is ~~SA~~ to WR up to 1.5" ø angular
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6		Residuum	ML-GM	14.5-15 weathered Rome gr. SILT to sl. GRAVEL brownish (10YR 6/3) gravel is angular mudstone up to 1.5" ø boring terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0386

Date Started: 8/14/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 8/14/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvium	SW-GW	0-2.45 Si-gr. SAND to Sa-GRAVEL w/ zones of m-v. coarse sand, little gravel; gravel is sub to well rounded up to 2" of yellowish brown (10YR 5/6), saturated
1	0.3	80%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	0%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100% + some of 5-10			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0386

Date Started: 8/14/08 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/14/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: J. Kelly **Equipment:** Mini Sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25	Alluvium	SW-	SA-A
21	6.4	100%		GW	
22	6.7				
23	7.0				
24	7.3				
25	7.6		Residuum	ML	24.5-25 weathered Rome! gr SILT to cl. SILT brownish yellow (10YR 6/8) gravel is angular, saturated
26	7.9				
27	8.2				boring terminated @ 25'
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0387

Date Started: 8/14/08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 2
Date Completed: 8/14/08 **Driller:** Justin Miller **Survey Unit:** 66
Logged By: S. Kelly **Equipment:** mini-Sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvium	SW-GW	0-30.5 grav. SAND to sa. GRAVEL, wet yellowish brown (10YR 5/4), gravel SS rounded to well ~~sub~~ rounded sub. 8/14/08
1	0.3	75%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9	100%			
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0387

Date Started: 8/14/08 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/14/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25	Alluvium	SW-GW	SAA w/ zones of m-v. coarse SAND
21	6.4				
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-32			
26	7.9	100%			
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5		Residuum	ML	30.5-32; weathered Rome. gr. sa. SILT, yellowish brown 10YR (5/8) gravel is angular shale
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0388

Date Started: 8/19/08	**Drilling Contractor:** Bart Lanyger	**Page** 1 **of** 1
Date Completed: 8/19/08	**Driller:** Justin Miller	**Survey Unit:** 160
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 90%	Alluvial	SW-GW	0-16': si. gr. f-c SAND to sa. GRAVEL, yellowish brown (10YR 5/8) gravel is angular to wr up to 2" ϕ, wet-saturated
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 80%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-20 60%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9		Residuum	GM	16-20 weathered Rome: si. GRAVEL, brownish yellow (10YR 6/8): gravel is angular "flaky" mudstone to massive limestone (dk. gray) up to 2" ϕ
17	5.2				
18	5.5				
19	5.8				
20	6.1				boring terminated @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0389

Date Started: 8/14/08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 8/14/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0-8: si. gr. SAND to si. sa. GRAVEL, wet yellowish brown (10YR 5/4) gravel is rounded to WR up to 1.5" ϕ
1	0.3	75%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4		Residuum	ML	8-10: weathered Rome sa. gravelly SILT brownish yellow (10YR 6/8) & light gray (10YR 7/1) gravel is angular up to 1" ϕ
9	2.7				
10	3.1				boring Terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0390

Date Started: 8/19/08	**Drilling Contractor:** Beart Langyear	**Page** 1 **of** 1	
Date Completed: 8/19/08	**Driller:** Justin Miller	**Survey Unit:** 16	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0-11 sl. gr. F-C SAND to sa. GRAVEL, wet
1	0.3	100%			yellowish brown (10YR5/8) gravel is angular to WR up to 2"φ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1				10-11: v. sl sa. GRAVEL, gravel is angular
		10-12			(Rome) to SA, saturated
11	3.4	100%			
			Residum	WL	11-12 weathered Rome: gr. SILT, v. pale brown
12	3.7				(10YR 7/3) gravel is angular: mudstone/lime-
		12-13	Bedrock	GW	stone up to 1"φ, wet
13	4.0	100%		8/19/08	12-13 bedrock - Rome! limestone/dolostone
14	4.3				boring terminated @ 13'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0391

Date Started: 8/13/08 **Drilling Contractor:** Bartlingyear **Page** 1 **of** 1

Date Completed: 8/13/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5 100%	Alluvial	SW	0-9 gravelly f-c SAND, yellowish brown (10YR 5/4), gravel is sub to well-rounded up to 2" ø, wet-saturated
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7		Residuum	ML	8/13/08 9-10 weathered Rome gravelly silt, lt. brownish gray (10YR 6/2) to yellowish brown (10YR 5/4)
10	3.1				Boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0392

Date Started: 8/15/08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 2

Date Completed: 8/15/08 **Driller:** Mini Sonic **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** Justin Miller **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 75%	Alluvium	SW-GW	0-31.5 sl. gr. f-c SAND to sl. sa. GRAVEL strong brown (7.5YR 4/6) gravel is SA to WR up to 2" ϕ saturated
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20			
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0392

Date Started: 8/15/08 **Drilling Contractor:** Beartlongyear **Page** 2 **of** 2

Date Completed: 8/15/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25	Alluvium	SW-	SAA w/ zones of m-v.coarse SAND
21	6.4	100%		GW	w/ little gravel
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-33			
26	7.9	100%			
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8		Residuum	ML	31.5-33 Weathered Rock: cl. gr. SILT strong brown (7.5YR 5/6) wet (saturated, gravel is angular mudstone up to 1" ϕ
33	10.1				
34	10.4				boring terminated @ 33'
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0373

Date Started: 8/18/08	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 8/18/08	**Driller:** Justin Miller	**Survey Unit:** 16	
Logged By: S. Kelly	**Equipment:** Mini Sonic	**Elevation:**	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 50% 8/18/08 D20	Alluvial	SW-GW	0-10: sl. gr. f-c SAND to gr. 8/18/08 sa. GRAVEL, yellowish brown (10YR 5/8) gravel is SA to WR, saturated
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 50%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%	Residuum	ML	weathered Perko: 10-15: gr. cl. SILT, v. pale brown (10YR 7/3) and yellowish brown (5YR 5/8) gravel is angular, mudstone/shale
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				boring terminated @15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0394

Date Started: 8/18/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/18/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 85%	Alluvial	SW-GW	0-12 sl. gr. f-c SAND to sa. GRAVEL, wet yellowish brown (10YR 5/8) gravel is angular to WR up to 1.5" ϕ, wet to saturated
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7		Residuum	ML	12-15 weathered Rome: cl. gr. SILT brown to yellow (10YR 6/8) gravel is angular mixture up to 1.5" ϕ
13	4.0				
14	4.3				
15	4.6				Boring terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0395

Date Started: 8/14/08	**Drilling Contractor** Beart Longyear	**Page** 1	**of**
Date Completed: 8/14/08	**Driller:** Justin Miller	**Survey Unit:** 16	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 50%	Alluvial	SW-GW	0-8.0 sl. gr. SAND to sa. GRAVEL, strong brown (7.5YR 5/6), gravel is rounded to WR up to 2" ø, saturated
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-8.5 100%			
6	1.8				
7	2.1				
8	2.4		Residuum	GM	8.0-8.5: weathered Rock: sl. GRAVEL, strong brown (7.5YR 5/6), gravel is angular mudstone & shale
9	2.7				
10	3.1				
11	3.4				boring terminated @ 8.5'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0396

Date Started: 8/13/08 **Drilling Contractor:** Beautlongyear **Page** 1 **of** 1

Date Completed: 8/13/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW	0-7.5 gr f-c SAND strong brown
1	0.3	75%			(7.5YR 4/6) wet, gravel is rounded
					up to 2.5" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4		Residuum	MC-GM	7.5-10 weathered Rock, gr. SILT,
					strong brown (7.5YR 4/6) gravel is
9	2.7				angular up to 2" ϕ, wet
10	3.1				boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0397

Date Started: 8/18/08	**Drilling Contractor:** Bart Longyear	**Page** 1 **of** 1
Date Completed: 8/18/08	**Driller:** Justin Miller	**Survey Unit:** 16
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 20%	Alluvial	SW-GW	0-17 si. gr. f-c SAND to sa. GRAVEL, dk. yellowish brown (10YR 4/4) to yellowish brown (10YR 5/8) gravel is SA to WR up to 1.5" ϕ
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-15			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20 80%			
16	4.9				
17	5.2		residuum	ML	17-20 weathered Reme. gr. cl. SILT strong brown (7.5YR 5/6) gravel is angular mudstone up to 1" ϕ
18	5.5				
19	5.8				
20	6.1				boring terminated @ 20'

Run = Drill Run interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0398

Date Started: 8/19/08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 8/19/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 80%	Alluvial	SW-GW	0-5.5 Si. gr. SAND to Sa. GRAVEL, yellowish brown (10YR 5/8), slightly cemented, wet to saturated, gravel is angular to WR up to 1.5"Φ (f-c)
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%	Residuum	ML-GM	5.5-10 Weathered Rock: cl. gr. SILT becoming Si. GRAVEL, brownish yellow (10YR 6/8) gravel is angular up to 1"Φ
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. D399

Date Started: 8/18/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/18/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: Skelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0-6 si.gr.f-c SAND to gr.SAND, wet, gravel is SA to WR up to 1.5"φ, yellowish brown (10YR 5/6)
1	0.3	80%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%	Residuum	ML	6-10 Weathered Rock: cl.gr.SILT, brownish yellow (10YR 6/8), gravel is angular up to 0.5"φ little SA/SW 8/18/08
7	2.1				
8	2.4				
9	2.7				
10	3.1				boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0400

Date Started: 8/14/08	**Drilling Contractor:** Beart Longyear	**Page** 1 **of** 1	
Date Completed: 8/14/08	**Driller:** Justin Miller	**Survey Unit:** 16	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 50%	Alluvial	SW-GW	0-18 si. gr. f-c SAND > to sa. gravel, yellowish brown (10YR 5/4) gravel is SR to WR
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 20%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 30%			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20 75%			
16	4.9				
17	5.2				
18	5.5		Residuum	ML-GM	18-20 weathered Rock: gr. SILT & si. GRAVEL brownish yellow (10YR 6/8) gravel is angular
19	5.8				
20	6.1				boring terminated @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0401

Date Started: 8-22-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8-22-08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weis **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0 to 5 40%	Alluvial	SW	0 to 10 silty SAND w/ gravel. Olive brown (2.5Y 4/3). wet to saturated; gravel: Angular to well rounded. upto 1½" Φ
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10 50%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10 to 15 100%	residual	CL	10 to 15 silty CLAY w/ little gravel yellow (2.5Y 7/8) wet to moist; gravel: angular upto ¾" Φ. "Weathered Rome"
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				Boring terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0902

Date Started: 8/20/08 **Drilling Contractor:** Brent Longpear **Page** 1 **of** 1

Date Completed: 8/20/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	Alluvial	GW-SW	0-7': sl. gr. f-c SAND to sa. GRAVEL, strong brown (7.5YR 5/6), gravel is SA to WR up to 2" ⌀
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1		Residuum	ML	7-10: Weathered Rock: cl. silt, yellowish red (5YR 5/8), little fine angular gravel, wet
8	2.4				
9	2.7				
10	3.1				boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0403

Date Started: 8-21-08 **Drilling Contractor:** Roark Longyear **Page** 1 **of** 1

Date Completed: 8-21-08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0 to 5	Alluvial	SC to GW	0 to 6.5' ~~silty sandy~~ KW silty gravely SAND to sandy GRAVEL yellowish brown (10YR 5/6) moist to wet gravel: Angular to WR: up to 2½" φ
1	0.3	90%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	55%			
7	2.1		Residual	ML	6.5' to 15 gravely SILT brownish yellow (10YR 6/8) gravel: angular up to 2" φ Weathered Rock.
8	2.4				
9	2.7				
10	3.1	10 to 15			
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6				Terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0404

Date Started: 8/15/08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 8/15/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0- very si. gr. SAND & gr. SAND yellowish brown (10YR 5/6), gravel is SA to WR up to 2" ϕ, saturated
1	0.3	80%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15	Residuum	ML	10-15 weathered zone cl. gr. SILT, brownish yellow (10YR 6/8), saturated, gravel is angular mudstone & limestone up to 2.5"
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6				boring terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0405

Date Started: 8.21.08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8.21.08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-sonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0 to 5	Alluvial	SW to	0 to 7 silty gravelly SAND. yellowish brown (10YR 5/6).
1	0.3	70%		GW	moist to wet; gravel: Angular to Well Rounded,
					upto 2½" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	100%			
7	2.1				
			Residual	ML	Weathered Rome: clayey SILT. Very Pale
8	2.4				brown (10YR 8/3) & brownish yellow
					(10YR 6/8). wet to moist; little angular
9	2.7			ML	AB 8/21/08 gravel: upto 1" ϕ.
10	3.1				
					Boring Termination @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0406

Date Started: 8-22-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8-22-08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** mini-sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0 to 5	Alluvial	SW to	0 to 12 silty gravely SAND to sandy GRAVEL
1	0.3	60%		GW	brown (10YR 5/3) & brownish yellow (10YR 6/6),
					Moist to wet. gravel: Angular to well rounded. Some
2	0.6				gravel present ~~[illegible]~~
3	0.9				
4	1.2				
5	1.5				
		5 to 10			
6	1.8	75%			
7	2.1				
8	2.4				
9	2.7				
10	3.1				
		10 to 15			
11	3.4	100%			
12	3.7		Residual	~~[illegible]~~	12 to 15' gravely SILT w/ little clay. brownish yellow
13	4.0				(10YR 6/8) & very pale brown (10YR 7/3) moist to
					saturated. gravel: Angular up to 1½" ϕ. dark
14	4.3				reddish gray (10YR 4/1) observed in 14' to 15'
					weathered Rock
15	4.6				Boring terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0407

Date Started: 8·22·08 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 8·22·08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0 to 5 80%	Alluvial	SW to GW	0 to 11½' silty gravelly SAND to sandy GRAVEL yellowish brown (10YR 5/4). Moist to wet. gravel; Angular to well rounded, 1½ ϕ.
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10 to 15 100%			
11	3.4				
12	3.7		residual	ML	11½ to 15' "weathered Rock" gravelly SILT. brownish yellow (10YR 6/6) moist to wet; gravel: Angular upto 1" ϕ, shale.
13	4.0				
14	4.3				
15	4.6				Termination of boring at 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0408

Date Started: 8/19/08	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 8/19/08	**Driller:** Justin Miller	**Survey Unit:** 16			
Logged By: S. Kelly	**Equipment:** Mini Sonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0-7.5: sl. gr. f-c SAND to sa. GRAVEL, slightly cemented, moist to saturated, dk. yellowish brown 10YR (4/4) gravel is angular to WR up to 2" ϕ
1	0.3	90%			
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4		Residuum	ML	7.5-10: weathered Rock: sl. cl. SILT, little gravel (friable mudstone/shale) gravel is angular up to 1" ϕ, ~~yellowish brown~~ (10YR 6/8) brownish yellow SKE 8/19/08
9	2.7				
10	3.1				boring terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0409

Date Started: 8/18/08	**Drilling Contractor:** Blart Longyear	**Page** 1	**of** 1
Date Completed: 8/18/08	**Driller:** Justin Miller	**Survey Unit:** 16	
Logged By: S. Kelly	**Equipment:** mini Sonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5	Alluvial	SW-GW	0-0.5 sj. gr. f-c SAND to sa. GRAVEL, wet
1	0.3	75%			somewhat cemented brown (10YR 4/3)
					gravel is angular (broken cobble) to
2	0.6				WR up to 2.5" ϕ
3	0.9				
4	1.2				
5	1.5	5-10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15			
11	3.4	100%	Residuum	ML	0.5-15 weathered Pierre: sl. gr. SILT,
					brownish yellow (10YR 6/8) gravel is
12	3.7				angular mudstone/shale
13	4.0				
14	4.3				
15	4.6				boring terminated @ 15' SK 8/18/08
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0410

Date Started:	8-21-08	**Drilling Contractor:**	Boart Longyear	**Page** 1	**of** 1
Date Completed:	8-21-08	**Driller:**	Justin Miller	**Survey Unit:**	16
Logged By:	K. Weir	**Equipment:**	Mini-sonic	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0 to 5	Alluvial	SW6	0 to 8.5' silty gravely SAND to sandy GRAVEL
1	0.3	60%		GW	dark yellowish Brown (10YR 3/4). Moist to Wet
					gravel: Angular to Well Rounded, up to 2½" Φ.
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7		Residual	ML	Weathered Rome: gravelly SILT, brownish yellow (10YR-
					5/8). Wet to Saturated; gravel: Angular up to 2" Φ.
10	3.1				Boring Terminated @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0411

Date Started: 8.22.08 **Drilling Contractor:** Boyd Longyear **Page** 1 **of** 1

Date Completed: 8.22.08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0 to 5	Alluvial	SW to	0 to 11 gravely SAND to sandy GRAVEL
1	0.3	60%		GW	dark yellowish brown (10YR 4/6) moist to wet.
					gravel: Angular to well rounded; upto 2" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	90%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10 to 15			
11	3.4	100%	residual	ML	11 to 15 gravely SILT, brownish yellow
12	3.7				(10YR 6/8) moist to saturated gravel:
					Angular, upto 1½" ϕ, finely laminated Shale.
13	4.0				
14	4.3				
15	4.6				Termination of Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 042

Date Started: 8/20/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/20/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5 100%	Alluvial	SW-GW	0-12.5 Si. gr. f-c. SAND to sa. GRAVEL brown (10YR 4/3) gravel is angular to WR up to 2" ø
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0		Residuum	GM	12.5-15 weathered Rome: Si. GRAVEL gravel is friable brownish yellow (10YR 6/8) and light yellowish brown (10YR 6/4) gravel is angular mudstone
14	4.3				
15	4.6				boring terminated @ 15' 8/20/08
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0413

Date Started: 8.21.08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8.21.08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: JC Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0 to 5 75%	Alluvial	SW to GW	0 to 13.5 Silty gravely SAND: yellowish brown (10YR 5/4) moist to wet, gravel: Angular to Well rounded, up to 2½" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10 to 15			
11	3.4				
12	3.7				
13	4.0				
14	4.3		Residual	~~Rock~~ ML	13.5 to 15 gravely SILT, Reddish brown (5YR 4/4) and dark reddish gray (5YR 4/2), gravel: angular 1" ϕ Weathered Rome Fm.
15	4.6				Terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0414

Date Started: 8/22/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 8/22/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SW	0'-9.5' si. gr. f-c SAND (SW) wet, brown (10YR 5/3) to yellowish brown (10YR 5/6), gr. is f-c SA. WR alluvium
2	0.6	4'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1		Residuum	ML	9.5'-10.0' gr. sa. SILT. (ML) yellowish brown (10YR 5/4), wet, gr. is A. Mudstone/slate (Rone Fm)
11	3.4	10'-15' R 8/22/08			
12	3.7				Terminate Boring @ 10.0'
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0415

Date Started: 8.22.08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8.22.08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0 to 5	~~residual~~ to 2.2m	SC to	0 to 11' silty gravelly SAND to sandy GRAVEL
1	0.3	80%	Alluvial	GW	yellowish brown (10YR 5/6), moist to wet,
					gravel: angular to well rounded, up to 2" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10 to 15			
11	3.4	100%	residual	ML	11 to 15' SILT w/ clay & little gravel. very pale brown (10YR 7/3) & yellowish brown (10YR 5/4). wet to moist. gravel: angular up to 1½" ϕ / Weathered Rome Fm.
12	3.7				
13	4.0				
14	4.3				
15	4.6				Termination of Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0416

Date Started: 8/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: RODNEY CLARK **Equipment:** MINISONIC 140 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8.5' si.gr.f-c SAND - si.sa.GRAVEL (SW/GW)
2	0.6				wet, gravel is SR-WR ≠ up to 2" diameter/alluvium
3	0.9	4/5'			sand is f-c, mostly quartz sand
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5/5'			
9	2.7		Residuum	ML	8.5'-10' gr.SILT (ML), wet, yellowish brown (10YR 5/6), gr. is A. weathered
10	3.1				Shale/mudstone (weathered Rome Fm)
11	3.4				10' - Terminate Boring
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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BORING NO. 0417

Date Started: 8/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: RODNEY CLARK **Equipment:** MINI SONIC 140 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	GW	0'-5' si. sa. GRAVEL (GW) wet, light olive brown (2.5Y 5/4), sa is f-c, gravel is SR-WR ≠ up to 2" di.
2	0.6	4'/5'			
3	0.9				
4	1.2				
5	1.5			SW	5'-13' si. gr. f-c SAND (SW) wet, light olive brown (2.5Y 5/4) gr. is SR-WR ≠ up to 2" diameter mostly f-c quartz sand
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				
10	3.1				10'-13' SAA except brownish yellow (10YR 6/6)
11	3.4	10'-15'			
12	3.7	5'/5'			
13	4.0		Residuum	ML	13'-15' gr. sa. cl SILT (ML) wet, yellowish brown (10YR 5/6), gr. is angular reddish brown (2.5YR 4/3) finely laminated shale
14	4.3				
15	4.6				(Weathered Rome Formation)
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0418

Date Started: 8.21.08 **Drilling Contractor:** Beard Logs **Page** 1 **of** 1

Date Completed: 8.21.08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		5.0	Alluvial	SW to	0 to 13 Silty Gravely SAND to SW GRAVEL
1	0.3	100%		GW	Yellowish Brown (10YR 5/4)
					gravel is 2" ø, Angular to Well Rounded
2	0.6				
3	0.9				
4	1.2				
5	1.5				
		5.0 to 100			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1				
		total 5			
11	3.4	100%			
12	3.7				
13	4.0		Residual	ML	13 to 15 Weathered Rome: gravely Sandy SILT
14	4.3				dark Reddish Gray (5YR 4/2)
15	4.6				Boring Terminated at 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0419

Date Started: 8/21/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/21/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: S. Kelly **Equipment:** mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
1	0.3	0-5 100%	Alluvial	SW-GW	0-12.5 sl. gr. f-c SAND to sa. GRAVEL, yellowish brown (10YR 5/4); gravel is angular to WR up 2.5" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5-10 100%			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15 100%			
11	3.4				
12	3.7				
13	4.0		Residuum	ML-GM	12.5-15 weathered Rock: el. gr. SILT to sl. GRAVEL, brownish yellow (10YR 6/8) gravel is angular mudstone/shale up to 1.5" ϕ
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0420

Date Started: 8/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/25/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC 140 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3				0'-3' si, gr, f-c SAND (SW) - sa GRAVEL (GW) web, light olive brown
		4'/5'	Alluvium	SW/GW	(2.5Y 5/3), gr. is f-c & SR-WR, mostly
2	0.6				f-c quartz sand alluvium
3	0.9				
					3'-13' SAA except brownish yellow
4	1.2				(10YR 6/6)
5	1.5	5'-10'			
6	1.8				
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	5/5'			
13	4.0				13'-14' gr, sa, SILT (ML) wet, yellowish
				ML	brown (10YR 5/6), gr is f-c & SR-WR
14	4.3				some gravel is A. shale
					@ 8/25/08
			Residuum	ML	14'-15' gr, sandy SILT (ML) wet,
15	4.6				gr is A. shale/mudstone (Rone Fm.) weathered
16	4.9				Terminated Boring @ 15.0'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0421

Date Started: 10/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 2.5'/5'	Alluvial	SW/GW	0'-7' sl. gr. f-c SAND-sa GRAVEL (SW/GW), wet, dark grayish brown (2.5Y 4/2), gr. is SR-WR alluvium & up to 2" in diameter
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10' 4'/5'			
6	1.8				
7	2.1				7'-13' SAA except light yellowish brown (10YR 6/4)
8	2.4				
9	2.7				
10	3.1	10'-15' 3.5'/5'			
11	3.4				
12	3.7				13'-15'
13	4.0				GRAVEL (Cobble/Boulder) (GW) dry,
14	4.3			GW	very pale brown (10YR 7/3) to greenish gray (GLEY 1 4/10Y 1)
15	4.6	15'-20'			gr. is gneiss & quartzite cobble sized alluvium (heavily fragment by drill bit)
16	4.9				15'-20'
17	5.2	2.5'/5'	Bedrock	GW	GRAVEL (Bedrock) (GW) dry, weak red (2.5YR 4/2), gr. is A. laminated shale / Rome FM
18	5.5				Shale is hard & indurated, fissle laminated
19	5.8				Hard drilling from 13'-20'
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0422

Date Started: 8/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1
Date Completed: 8/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16
Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-5' sl, gr, f-c SAND-sa, GRAVEL (SW/GW), wet, light olive brown (2.5Y 5/4), gr. is SR-WR &
2	0.6	4'/5'			up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				5'-8' SAA except brownish yellow (10YR 6/6)
		5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4		Residuum	ML	8'-8.5' - gr. SILT, wet-Moist, weak red (10R 4/4) gr is R. shale (weathered Bone Fine)
9	2.7		Bedrock	GW	8.5'-10 - GRAVEL (Bedrock) GW, mostly gr is A. shale/mudstone, weak red (10R 4/4)
10	3.1				↖ Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0423

Date Started: 8·21·08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8·21·08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** mini-sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0 to 5	Alluvial	SW to	0 to 11' silty gravely SAND to sandy GRAVEL
1	0.3	90%		GW	dark yellowish brown (10YR 3/4), moist to
					wet; gravel: Angular to Well Rounded; 2½" max size
2	0.6				
3	0.9				
4	1.2				
5	1.5	5 to 10			
6	1.8	100%			
7	2.1				
8	2.4				
9	2.7				
10	3.1				KW 8/21/08
		10 to 11			Refusal ~~on Rock~~ @ 11'
11	3.4	100%			
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0424

Date Started: 8-21-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8-21-08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0 to 5	Alluvial	SW to GW	0 to 13: Sl. gravely SAND to Sandy GRAVEL
1	0.3	60%			dark yellowish brown (10YR 4/4)
					gravel: Angular to Well Rounded; up to 2½" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5				
		5 to 10			
6	1.8	80%			
7	2.1				
8	2.4				
9	2.7				
10	3.1				
		10 to 15			
11	3.4	100%			
12	3.7				
13	4.0		Residual	ML	13 to 15 Weathered Zone: gravely sandy SILT
14	4.3				dark reddish gray (5YR 4/2)
					gravel is angular up to 1½"
15	4.6				Boring Terminated @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0425

Date Started: 9/17/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/17/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-14' sl gr f-c SAND-sa GRAVEL (SW/GW)
1	0.3		Alluvial	SW/GW	wet, light olive brown (2.5Y 5/3), gr is
					SR-WR alluvium ∅ up to 2"
2	0.6	4'/5'			diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	5'/5'			
13	4.0				
14	4.3				14'-19' gr cl SILT (ML) wet-moist
15	4.6				brownish yellow (10YR 6/6) gr is
		15'-20'			A. laminated shale/weathered
16	4.9		Residuum	ML	Rome Formation
17	5.2				
18	5.5	5'/5'			
					BEDROCK
19	5.8				19'-20' silty GRAVEL (GW) dk-light
			Bedrock	GW	olive gray (5Y 5/2) gr is Shale
20	6.1				Rome Formation
					← Terminate Boring @ 20.0

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 426

Date Started: 10·6·08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 10·6·08 **Driller:** J. Robinson **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	~1.0/5.0	Alluvial	SW/GW	(otoH2) silty gravely SAND to sandy GRAVEL, light olive brown (2.5Y 5/4). Wet to Saturated. gravel: sub-angular to well rounded up to 2" ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	~2.5/5.0			
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4	~3.0/5.0			
12	3.7				
13	4.0				
14	4.3				→ Weathered ROMF
15	4.6		Residual	ML	clayey SILT, bluish gray (GLEY2 (5/1)) Angular to sub-angular shale. Boring terminated @ 15' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0427

Date Started: 10/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0'-5'		SW/GW	0'-12' sl.gr.f-c SAND - sa.GRAVEL (SW/GW)
1	0.3		Alluvial		wet, dark grayish brown (2.5Y 5/2)
2	0.6	2.5'/5'			gr is SR-WR alluvium & up to 2" in diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
					12-13
12	3.7	5'/5'			gr.cl.sa SILT (ML) wet, yellowish brown
13	4.0			ML	(10YR 6/6) gr is SR-WR alluvium, sa is mostly fine quartz sand
14	4.3			GW	13'-15' GRAVEL (cobble/boulder) GW, dry very pale brown (10YR 7/3) & dk (GLEY1 4/10Y) granitic grain
15	4.6	15'-20'			(GLEY1 4/10) 10/3/08, gr is alluvium (gneiss cobble)
					15'-15.5
16	4.9			SW	gr-c SAND wet (SW) brownish yellow (10YR 6/6) gr is alluvium & shale & dolostone
17	5.2	4'/5'			gr.cl. SILT (ML) light olive gray (5Y 6/2)
18	5.5			ML	gr is A. shale/weathered Rome Formation
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0428

Date Started: 8/27/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-10' si, gr, f-c SAND - sa, GRAVEL (SW/GW), wet, light olive brown (2.5Y 5/4), gr is SR-WR & up to 2" diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				
5	1.5				5'-10' (POOR RECOVERY), saturated & loose observed falling out of core barrel sample
6	1.8	5'-10'			
7	2.1	0.5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'		GW	10'-11' cl, si, sa, GRAVEL (GW), wet, brownish yellow (10YR 6/6), gr is SR-WR & up to 2" diameter
11	3.4	5'/5'			
12	3.7		Residuum	GW	11'-15' si, cl, GRAVEL (GW/Bedrock), wet, gr. is A. laminated shale (Ronald Fm.)
13	4.0				
14	4.3		Bedrock		
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0429

Started: 8/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1
Date Completed: 8/26/08 **Driller:** JOSHUA MILLER **Survey Unit:** 16
Logged By: RODNEY CLARK **Equipment:** MINI SONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si.gr.f.c SAND-sa.GRAVEL (SW/GW), wet, olive brown (2.5Y 4/3), gr. is SA-WR ≠ up to 2" in diameter
2	0.6	4/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			7'-10' SAA except brownish yellow (10YR 6/6)
6	1.8				
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'	Residuum	ML	10'-11' gr. SILT (ML) wet, yellowish brown (10YR 5/6), gr. is A. weathered shale (Weathered Rome Fm)
11	3.4				11'-15' GRAVEL (GW) (Bedrock), moist, dg weak red (10R 4/3), gr. is A. shale/mudstone (Rome Fm)
12	3.7		Bedrock	GW	
13	4.0	5/5'			
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0430

Date Started: 8/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/28/08 **Driller:** JOHN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW/GW	0'-2' si, gr, f-c SAND-sa GRAVEL (SW/GW) wet, light olive brown (2.5Y 5/4), gr. is SR-WR & up to 2" in diameter
2	0.6	4.5'/5'			
3	0.9				
4	1.2				2'-13' SAA except brownish yellow (10YR 6/6)
5	1.5	5-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10-15'			
11	3.4				
12	3.7	5/5'			
13	4.0				13'-15' d, gr. SILT, moist, weak red (10R 4/4), gr is A. laminated shale/mudstone (Weathered Rome Fm)
14	4.3		Residuum	MC	
15	4.6				
16	4.9				Terminate Boring @ 15.0'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0431

Date Started: 8/25/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/25/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** Minisonic 1402 **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 4.5'/5'	Alluvial	SW/GW	0'-10' si gr f-c SAND - sa GRAVEL (SW/GW) wet, light yellowish brown (2.5Y 6/4), gr is f-c & SR-WR
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-12' SAA except brownish yellow 10YR 6/6
11	3.4				
12	3.7	5'/5'			12'-15' gr SILT (ML) wet yellowish brown (10YR 5/6), gr is A. slaty mudstone (weathered Rose Fm)
13	4.0		Residuum-rxc		
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0432

Date Started: 10/2/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/2/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5	Alluvial	SW/GW	0'-19' sing f-c SAND-sa GRAVEL (SW/GW) wet yellowish brown
2	0.6	2.5/5'			(10YR 5/6) gr. is SR-WR alluvium
3	0.9				P up to 2" diameter
4	1.2				
5	1.5	5'-10'			
6	1.8	4.5/5'			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7				
13	4.0	5/5'			
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2				
18	5.5	5/5'			
19	5.8		Residuum	ML	19'-20' gr'd SILT (ML) moist, weakly (10R 4/3) gr. is A. Shale fragments Weathered Rowe Formation
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0433

Date Started: 10/2/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/2/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-13' sl. gr. f.c. SAND - sa. GRAVEL (SW/GW); wet, light olive brown (2.5Y 5/3) gr is SR-WR alluvium ≠ up to 2" in diameter
2	0.6	2/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	2/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5/5'			
13	4.0				13'-15' gr. d. SILT (ML) moist, reddish brown (5YR 4/4) gr is
14	4.3		Residuum	ML	1. laminated shale/rel. d. rock Structure of Weathered Rock Fm.
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0434

Date Started: 10/2/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 10/2/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvial	SW/GW	0'-24' silty f-c SAND - sa. GRAVEL (SW/GW) wet yellowish brown (10YR 5/4) gr is A. laminated Shale/weathered Rome Fm.
1	0.3				
2	0.6	2'/5'			
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2	2'/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0434

Date Started: 10/2/08 **Drilling Contractor:** Robert Lowyear **Page** 2 **of** 2

Date Completed: 10/2/08 **Driller:** James Robinson **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvial	SW/GW	
22	6.7	4'/5'			
23	7.0				
24	7.3				24'-25' gr. cl. SILT (ML) moist, reddish brown
			Residuum	ML	(5YR 4/3) gr. is A. shale/weathered rock Fm
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0435 ~~0434~~ RC 9/30/08

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-10' si.gr.f.c SAND-s.a GRAVEL (SW/GW) wet yellowish brown (10YR 5/6), gr is SR-WR alluvium # up to 2" in diameter.
2	0.6	1.5'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	2'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-15' SAA except olive yellow to light yellowish brown (2.5Y 6/4 & 6/6)
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-19.5' SAA except brownish yellow (10YR 6/6)
16	4.9				
17	5.2	5'/5'			
18	5.5				
19	5.8				19.5'-25' gr.cl. SILT (ML) wet-moist light yellowish brown (2.5YR 6/4) gr is A. laminated slate/weathered Rome Fm.
20	6.1		Residuum	ML	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0435 ~~0434~~ RC 9/30/08

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			gr, cl SILT (ML) see page 1
21	6.4				
22	6.7		Residuum	ML	
23	7.0	3'/5'			
24	7.3				
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0436

Date Started: 8/27/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: RODNEY CLARK **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si.gr.f-c SAND-sa.GRAVEL (SW/GW) wet, light olive brown (2.5Y 5/4), gr is SR-WR & up to 2" in diameter
2	0.6	4/5			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			7'-16' si.gr.f-c SAND, wet, brownish yellow (10YR 6/6), gr is SR-WR & up to 1" diameter
7	2.1	5/5			
8	2.4			SW	
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	5/5			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'			16'-18.5' gr.cl.SILT (ML), wet, brownish yellow (10YR 6/8), gr is A. shale (Rome FM)
17	5.2		Residuum	ML	
18	5.5	5/5			18.5'-20' GRAVEL (Bedrock) (GW), moist, dy weak red (10R 4/3), gr is A. laminated shale (ROME FORMATION)
19	5.8		Bedrock	SW	
20	6.1				← Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0437

Date Started: 8/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-13' si,gc,f-c SAND - sa,GRAVEL (SW/GW) wet light olive brown (2.5Y 5/3), gr is
2	0.6	4'/5'			SR-WR ∄ up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				5'-13' SAA except brownish yellow (10YR 6/6)
		5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				13'-15' GRAVEL (GW) (Bedrock), moist-dry, gravel is A. laminated shale/
14	4.3		Bedrock	GW	mudstone / Weathered Rome Fm.
15	4.6				↖ Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0438

Date Started: 10/2/08 **Drilling Contractor:** BART LANGTEAR **Page** 1 **of** 2

Date Completed: 10/2/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvial	SW/GW	0-24' sing grd f-c SAND-sa GRAVEL
1	0.3				(SW/GW) swch gr to SR-WR alluvium
2	0.6				∓ up to 2" diameter
		2/5'			yellowish brown (10YR 5/6)
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5/5'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2				
18	5.5	4/5'			
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0438

Date Started: 10/2/08 **Drilling Contractor:** BART LONGYEAR **Page** 2 **of** 2

Date Completed: 10/2/08 **Driller:** BART LONGYEAR **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20-25'	Alluvial		
22	6.7	4/5			
23	7.0				
24	7.3				24-25' gr. d. SILT, (ML) mostly reddish
			Residual	ML	brown (2.5YR 4/3) gr. is A.
25	7.6				shale / weathered Ponca Fm
					terminate Boring @ 25'.
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

0439

BORING NO. ~~0439~~ RC 10/2/08

Date Started: 10/2/08 Drilling Contractor: BOART LONGYEAR Page 1 of 1

Date Completed: 10/2/08 Driller: JAMES ROBINSON Survey Unit: 16

Logged By: Rodney Clark Equipment: MINISONIC Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-14' si. gr. f-c SAND-sa. GRAVEL
2	0.6				(SW/GW) wet gr is SR-WR alluvium
		2/5'			≠ up to two in diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5/5'			
13	4.0				
14	4.3				14'-15' gr. d SILT (ML), moist, reddish
			Residuum	ML	brown (5YR 4/3) gr is A laminated
15	4.6				shale/weathered Rome FM
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0440

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si, gr, f-c SAND - sa, GRAVEL (SW/GW), wet, light yellowish
2	0.6	4.5'/5'			brown (2.5YR 6/4), gr is SR-WR alluvium, ≈ up to 2" diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			7'-12' SAA except yellowish brown (10YR 5/8)
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'		SW	12'-13' cl, sa, GRAVEL (SW), wet, yellowish brown, gr is A-SR shale ≈ alluvium
13	4.0				13'-17' cl, si, gr, f-c SAND (SW), wet
14	4.3			SW	yellowish brown, gr is mostly SR-WR alluvium, some shale
15	4.6				
16	4.9	15'-20'			f-c SAND (SW) 17'-25' sa, gr, ~~SAND (SW)~~, moist, yellowish brown (10YR 5/6)
17	5.2				gr is SR-WR, slightly
18	5.5	5'/5'			cemented, ≈ up to 1" diameter
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0440

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			20'-25' SAA except wet & less cemented
21	6.4			SW	
22	6.7	4/5'	Alluvial		
23	7.0				
24	7.3				
25	7.6				
		25'-30		ML	gr. c. SILT (ML) wet-moist, strong brown (7.5YR 5/6), gr is A. laminated shale / relict rock structure observed
26	7.9				
27	8.2	5/5'	Residuum		Weathered Rome Fm.
28	8.5				
29	8.8				(Rome Fm) GRAVEL / Bedrock, dry, weak red (10R 4/2), gr is A. laminated shale
30	9.2		Bedrock	GW	Terminate Boring @ 30'
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0441

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-25' sl. gr. f-c SAND - sa. GRAVEL (SW/GW) wet, strong brown (7.5YR 5/6) gr. is SR-WR alluvium & up to 2" in diameter
2	0.6	4/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4'/5'			
13	4.0				
14	4.3				
15	4.6	15'-25'			
16	4.9				
17	5.2	7'/10'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0441

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4				
22	6.7				
23	7.0				23'-25', gr. d SILT, (ML) reddish L. brown (5YR 4/3) moist, gr. is 4. laminated shale
24	7.3		Residuum	ML	Weathered Rome Formation
25	7.6				Terminated Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 442

Date Started: 9-23-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9-23-08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇	DESCRIPTION
1	0.3	2.5/50	alluvial	SW/GW	0 to 13	silty/gravely SAND to sand GRAVEL, moist to saturated, yellowish brown (10YR 5/4) gravel, sub-angular to well rounded up to 2½" ϕ
2	0.6					
3	0.9					
4	1.2					
5	1.5					
6	1.8	4.5/50				
7	2.1					
8	2.4					
9	2.7					
10	3.1					
11	3.4	50/50				
12	3.7					
13	4.0		residual	CL	13 to 15	"Weathered Rock" silty CLAY, moist to wet, yellowish brown (5YR) rock frag; dolostone, angular up to ¾" ϕ
14	4.3					
15	4.6					Boring terminated @ 15' bgs
16	4.9					
17	5.2					
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0443

Date Started: 10/13/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/13/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0-13.5' sl gr f-c SAND-sa, GRAVEL (SW/GW) yellowish brown (10YR 5/4) sgr, r.t. SR-WR alluvium to up to 2" in diameter.
2	0.6				
		3.5/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7				
13	4.0	5/5'			13.5'-15' gr, d, SILT (ML) moist, weak rxn (2.5YR 4/2) gr. is Q. Shale
14	4.3		Residuum	ML	Weathered Rona Fm.
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 444

Date Started: 10·6·08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 10·6·08 **Driller:** J. Robinson **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
1	0.3	2.5/50	Alluvial	SW/GW (0-4.5)	silty gravely SAND to sand GRAVEL, moist to saturated, yellowish brown (10YR 5/4), gravel, subangular to well rounded upto 2½"
2	0.6				
3	0.9				
4	1.2				
5	1.5	4.0/50			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1	5.0/50			
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				Boring terminated at 15' bgs
16	4.9				↳ Boring began askew @ ~6' bgs, by 15' bgs tpolage was unable to thread. Boring termination was approved by NFS
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 044S

Date Started: 10/1/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Cole **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-7.5' significant SAND-sa. GRAVEL (SW/GW)
1	0.3		Alluvial	SW/GW	wet, blue brown (2.5Y 4/3), gr.
					is SR-WR alluvium ∓ up to 20"
2	0.6	3'/5'			in diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			7.5'-14' SAA except yellowish brown (10YR 5/6)
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				14'-15' grd SILT (ML), wet, reddish
					brown (2.5YR 4/3), gr is A. slate
14	4.3		Residuum		fragments/weathered Rome Fm.
					Terminate Boring @ 15.0'
15	4.6	↓	↓	↓	
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0446

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽	DESCRIPTION
		0'-5'				
1	0.3		Alluvial	SW/GW		0'-7.5' si. gr. f-c SAND-sa. GRAVEL (SW/GW) wet, brown (10YR 5/3), gr. is SR-WR
2	0.6	5'/5'				alluvium & up to 2" in diameter
3	0.9					
4	1.2					
5	1.5	5'-10'				
6	1.8					
7	2.1	5'/5'				7.5'-21' SAA except yellowish brown (10YR 5/6)
8	2.4					
9	2.7					
10	3.1	10'-15'				
11	3.4					
12	3.7	4'/5'				
13	4.0					
14	4.3					
15	4.6	15'-20'				
16	4.9					
17	5.2	5'/5'				
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0446

Date Started: 10/1/08	**Drilling Contractor:** BURRT LONGYEAR	**Page** 2	**of** 2
Date Completed: 10/1/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINSONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-22'	Alluvial	SW/GW	
21	6.4	2/2'			grd. SILT (ML) moist dry brownish yellow (10YR 6/6)
			Residuum	ML	gr. is A laminated shale
22	6.7				Weathered Rome Formation
					Terminate Boring @ 22'
23	7.0				
24	7.3				
25	7.6				
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0447

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8' sl. grav. f-c SAND sa. GRAVEL (SW/GW) wet, brown (10YR 5/3) g is SR-WR alluvium, ∓ up to 2" in diameter
2	0.6	3/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	4/5'			8'-13.5' SAA except yellowish brown (10YR 5/6)
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7	5/5'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'			
17	5.2	5/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0447

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4			SW/GW	
22	6.7	5'/5'	Alluvial		
23	7.0				
24	7.3				
25	7.6				
		25'-30'			
26	7.9				
27	8.2	4'/5'			
28	8.5				29.5'-30.0' gcd SILT (ML) moist dry, reddish brown (2.5YR 4/3) g is a laminated shale. Weathered Rone Fm.
29	8.8				
30	9.2		Residuum	ML	Terminate Boring @ 30.0'
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0448

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodneyn Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-7.5' sign. fine SAND-some GRAVEL (SW/GW)
2	0.6	5'/5'			wet, light olive brown (2.5Y 5/4) grains
					SR-WR alluvium, up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1	5'/5'			7.5'-29.5' SAA except yellowish brown (10YR 5/8)
8	2.4				
9	2.7				
10	3.1				
		10-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
		15-20'			
16	4.9				
17	5.2	5'/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0448

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rachey Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4	1'/5'	Alluvial	SW/GW	
22	6.7				
23	7.0				
24	7.3				
25	7.6	25-33'			
26	7.9				
27	8.2				
28	8.5	6.5'/8'			
29	8.8				
30	9.2				29.5'-33' gr. cl. SILT (ML) wet moist, reddish yellow (7.5YR 6/8)
31	9.5		Residuum	ML	gr. is A. laminated shale Weathered Rock Fm
32	9.8				Relict rock structure
33	10.1				Terminate Boring @ 33'
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0449

Date Started: 9/10/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1
Date Completed: 9/10/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16
Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-14' sl. gr. f-c SAND - sa. GRAVEL (SW/GW) - brownish yellow (10YR 6/6) - gr. is SR-WR alluvium & up to 2" diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				9'-14' SAA except some A. gravel - steel shale
10	3.1				
11	3.4	10'-15'			
12	3.7	5'/5'			
13	4.0				
14	4.3				14'-15' gr. sl. CLAY (CL) - moist - brownish yellow - gr. is A. shale (weathered Rone Fm)
15	4.6		Residuum		Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0450

Date Started: 9/26/05 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/05 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW	0'-7.5' gr. f-c SAND - sa. GRAVEL (SW/GW) wet, olive gray (5Y 4/2) gr. is SR-WR alluvium
2	0.6	45/5'			
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1	5/5'			
8	2.4				7.5'-10' gr. c. SILT (ML) moist, weak red (2.5YR 4/2), gr. is A.
9	2.7		Residuum	ML	laminated shale/weathered Rock Fm.
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0451

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1
Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16
Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0'-5'	Alluvial	SW/GW	0'-7.5 sl. gr. f-c SAND-sa. GRAVEL (SW/GW)
1	0.3				wet, olive brown (2.5Y 5/3), gr is
2	0.6	5'/5'			SR-WR alluvium ≤ up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1	5'/5'			7.5-10.0 gr. cl. SILT (ML), wet-moist,
8	2.4				brownish yellow (10YR 6/6), gr is
9	2.7		Residuum	ML	A. laminated shale / weathered
					Rome Fm
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0452

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8' s.s. gr. f-c SAND-sa GRAVEL (SW/GW) wet, brown (10YR 5/3), gr is SR-WR alluvium up to 2" in diameter
2	0.6	1.5'/5'			
3	0.9				
4	1.2				
5	1.5	5'-15'			
6	1.8				
7	2.1				
8	2.4	5'/10'			8'-15' SAA except light yellow brown (10YR 6/4)
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-18.5' SAA except brownish yellow (10YR 6/6)
16	4.9				
17	5.2	5'/5'			
18	5.5				18.5'-20' gr. cl. SILT (ML) moist, weak red (10R 4/2) gr is A laminated shale
19	5.8		Residuum	ML	Weathered Rona FM
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0453

Date Started: 10/2/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 2

Date Completed: 10/2/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Ward **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-26' gr f-c SAND-sa GRAVEL (sw/gw) wet, light yellowish brown (2.5Y 6/4)
2	0.6	3.5'/5'			gr is SR-WR alluvium ≠ up to 2" in
3	0.9				diameter
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7				
13	4.0	5'/5'			
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2				
18	5.5	5'/5'			
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0453

Date Started: 10/2/08 **Drilling Contractor:** Bart Longyear **Page** 2 **of** 2

Date Completed: 10/2/08 **Driller:** James Robinson **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20-25'	Alluvial		
22	6.7	5/5'			
23	7.0				
24	7.3				
25	7.6				
26	7.9	25'-33'			26'-33' gr.cl SILT - gr.si.CLAY (ML/CL) wet-moist, brownish yellow (10YR 6/8) - reddish
27	8.2			ML	brown (2.5YR 4/3) gr.is A-slab
28	8.5				Weathered Rone Fm.
29	8.8	7/8'	Residuum		
30	9.2				
31	9.5				
32	9.8				
33	10.1				Terminate Boring @ 33'
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0454

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 9/29/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0-5'			
1	0.3		Alluvial	SW/GW	0'-7.5' si. gr. f-c SAND - sa. GRAVEL (SW/GW)
2	0.6	5/5'			wet, olive gray (5Y 5/2), gr. is SR-WR alluvium, # up to 2" diameter
3	0.9				
4	1.2				
5	1.5	5-10'			
6	1.8	5/5'			
7	2.1				7.5'-17' sa. except yellowish brown (10YR 5/8)
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4	5/5'			
12	3.7				
13	4.0				
14	4.3				
15	4.6	15-20'			
16	4.9				
17	5.2				17'-20' si. gr. f-c SAND, moist, strong
18	5.5	5/5'		SW	brown (7.5YR 5/6), trace clayey SILT lenses, slightly lithified, gr. is SR-WR alluvium, includes quartzite, gneiss, amphibolite, # is up to 1" diameter
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0454

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/29/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINIKON IC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			@ 20' drill rig suffers broken hydraulic line/Quit drilling for day 9/29/08 Repair hydraulic line/resume drilling borehole
21	6.4				
22	6.7	5'/5'			
23	7.0		Alluvial	SW	
24	7.3				
25	7.6				
		25'-28'			
26	7.9				26.5-28'
		3'/3'			
27	8.2			GW	GRAVEL (GW), dry, very pale brown (10YR 8/2), gr is large cobble/boulder alluvium (quartzite) fractured by drill rod
28	8.5				
		28-33'			
29	8.8	5'/5'		SW	28-33' gr. f.-c. SAND, wet, strong brown (7.5YR 5/6), gr is SR-WR alluvium up to 2" diameter
30	9.2		fc 9/29/08		
31	9.5				
32	9.8				
33	10.1				Terminate Boring @ 33'
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0455

Date Started: 9/10/08 **Drilling Contractor:** BARTLONGYEAR **Page** 1 **of** 2

Date Completed: 9/10/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-12.5' gr, si f-c SAND-sa GRAVEL (SW/GW) moist + dry, light yellowish brown (2.5Y 6/4), gr. is SR-WR alluvium & up to 2" in diameter
2	0.6	5/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5/5'			
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				12.5'-33' cl, si gr, f-c SAND (SW), moist, yellowish brown (10YR 5/4), gr is A-WR, some gr is heavily weathered/ relict rock structure, trace A. shale fragments, most SR-WR alluvium gr. also dark yellowish brown (10YR 4/4) slightly compacted & lithified
13	4.0	5/5'			
14	4.3				
15	4.6				
16	4.9	15'-20'			
17	5.2				
18	5.5	5/5'			
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0455

Date Started: 9/10/08 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 9/10/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** [illegible]

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'			
21	6.4				
22	6.7	4/5'			
23	7.0				
24	7.3				
25	7.6				
		25-30'			
26	7.9				
27	8.2				
28	8.5	4/5'			
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8				
33	10.1				Terminated Boring @ 33'
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0456

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' sl. gr. f-c SAND-some GRAVEL (SW/GW) wet, olive gray (5Y 4/2). gr. is SR-WR alluvium up to 2" in diameter
2	0.8	5/5'			
3	0.9				
4	1.2				
5	1.5				5'-10' gr. cl. SILT, moist, weak red (2.5YR 4/2). gr. is A laminated shale/weathered Rock Formation
6	1.8	5'-10'		ML	
7	2.1	2/5'	Residuum		
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0457

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' sing. f-c SAND-sa. GRAVEL (SW/GW), wet, olive gray (5Y 5/2) gr's SR-WR alluvial f up to 1" diameter
2	0.6	5/5			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1				7'-10' - gr. c. SILT, moist, Brownish yellow (10YR 6/8), gr. is A. laminated shale / weathered Bone Fm.
8	2.4	5/5			
9	2.7		Residuum	ML	
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0458

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3	4/5'	Alluvial	SW/GW	0'-11.5' sl. gr. f-c SAND-sa. GRAVEL (SW/GW) wet, olive gray (5Y 5/2), gr. is SR-WR alluvium ≅ up to 2" in diameter
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8	5/5'			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				11.5'-13' gr. cl. SILT (ML) moist, brown (7.5YR 4/3), gr. is A. laminated shale Weathered Rone Fm.
12	3.7	5/5'	Residum	ML	
13	4.0				13'-15' SAA except brownish yellow (10YR 6/8)
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0459

Date Started: 9/30/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/30/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rachaya Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8' sl. gr. f-c SAND-sa. GRAVEL (SW/GW) dark olive gray (5Y 5/2) gr. is SR-WR alluvium up to 2" in diameter
2	0.6	4'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			
8	2.4				8'-10' gr. cl. SILT, moist, weak red (10R 4/4). gr. is A. laminated shale
9	2.7		Residuum	ML	Weathered Rome Formation
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 460

Date Started: 9-22-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9-22-08 **Driller:** S. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** mini-sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	4.7	All.	SW	0 to 14 silty gravely SAND moist to saturated brownish yellow (10YR 6/6), gravel subangular to Well Rounded upto 2¾"
2	0.6				
3	0.9				
4	1.2	5.0			
5	1.5				
6	1.8	4.3			
7	2.1				
8	2.4				
9	2.7				
10	3.1	5.0			
11	3.4	5.0			
12	3.7				
13	4.0				
14	4.3	5.0	Res	ML	14 to 15 clayey SILT, moist to Wet, dark reddish brown (5YR 3/2). Some Angular to Sub-angular gravel upto ½"
15	4.6				
16	4.9				↳ Boring terminated @ 15' bgs
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 461

Date Started: 9-22-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9-22-08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		4.3	Alluvial	SW/GW	0 to 29.5' silty gravely SAND, yellowish brown (10YR 5/4) gravel: sub-angular to well rounded, up to 2" ϕ
1	0.3				
2	0.6				
3	0.9				
4	1.2	5.0			
5	1.5	4.5			
6	1.8				
7	2.1				
8	2.4				
9	2.7	5.0			
10	3.1	5.0			
11	3.4				
12	3.7				
13	4.0				
14	4.3	5.0			
15	4.6	5.0			
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1	5.0			

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 461

Date Started: 9-22-08 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2
Date Completed: 9-22-08 **Driller:** J. Miller **Survey Unit:** 16
Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		5.0	Alluvial		
21	6.4				
22	6.7				
23	7.0				Color change: reddish yellow (7.5YR 6/6).
24	7.3				
		5.0			
25	7.6				
		5.0			
26	7.9				
27	8.2				
28	8.5				
29	8.8				
		5.0			
30	9.2		Residual	CL	29.5 to 32' silty CLAY w/ angular to sub angular gravel/rock frags (dolomite/& Shale). -dark reddish brown (5YR 3/3) & reddish yellow (7.5YR 6/8).
		2.0			
31	9.5				
		2.0			
32	9.8				Refusal at 32' bgs
		3 (RW)	9/22/08		
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 462

Date Started: 10-6-08 **Drilling Contractor:** B. Longyear **Page** 1 **of** 1

Date Completed: 10-6-08 **Driller:** J. Robinson **Survey Unit:** 16

Logged By: K Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		2.0/5.0 (0-5')	Alluvial	SW	(0' to 5½') silty gravely SAND: light yellowish brown (10YR 6/4). moist to saturated gravel: sub angular to Well Rounded upto 2½" ϕ
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	3.5/5.0 (5-10')	Residual	ML	Weathered Rome (5½' to 10') ↳ ~~silty clay~~ clayey SILT: brownish yellow (10YR 6/8) & dark reddish gray (5YR 4/2). gravel & Rock Frag (some) angular to sub-angular upto ¾" ϕ dolostone & siltstone
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				boring terminated @ 10' bgs.
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0463

Date Started: 9/30/08	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 9/30/08	**Driller:** JIM ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0'-5'		SW	0'- sil gr f-c SAND pale olive (5Y 6/3)
1	0.3		Alluvial		wet, gr is SR-WR alluvium
					# up to 2" in diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				4.5'-5' gr cl SILT (ML), moist, weak red
5	1.5		Residuum	ML	(10R 4/3) gr is A laminated shale
					Weathered Rome Fm
6	1.8				Terminate Boring @ 5'
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 464

Date Started: 9-23-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9-23-08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇	DESCRIPTION
1	0.3	3.5/5.0	Alluvial	SW	0 to 7'	Silty gravely SAND, dark yellowish brown (10YR 4/4), moist to saturated, gravel; sub-angular to well rounded
2	0.6					
3	0.9					
4	1.2					
5	1.5					
6	1.8	4.0/5.0				
7	2.1		Residual	ML	7 to 10'	"Weathered Zone"
8	2.4					Clayey SILT, brownish yellow (10YR 6/8) & dark reddish brown (5YR 3/2), moist to wet, some gravel, angular, up to 3/4" Ø, shale
9	2.7					
10	3.1				Boring Terminated @ 10' bgs.	
11	3.4					
12	3.7					
13	4.0					
14	4.3					
15	4.6					
16	4.9					
17	5.2					
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0465

Date Started: 9/25/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/25/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7.5' sing. f-c SAND-sa. GRAVEL (SW/GW) wet-moist, light olive
2	0.6	5'/5'			brown (2.5Y 5/3), gr is SR-WR alluvium, gr is up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			7.5'-9.5' gr. c. SILT (ML) wet-moist brownish yellow (10YR 6/8)
8	2.4		Residuum	ML	gr is A laminated shale relict
9	2.7				rock structure / weathered Rone Fm.
10	3.1		Bedrock	GW	GRAVEL/Bedrock, dry, reddish brown 5YR 5/4, gr is A shale
11	3.4				Terminated Boring @ 10'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0466

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONICS **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8.5' sl gr. f-c SAND-sa. GRAVEL (SW/GW)
2	0.6	3.5'/5'			moist, olive (5Y 4/3) gr. is SR-WR alluvium ∓ up to 1" in diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	9'/5'			
8	2.4				8.5'-10'
9	2.7		Residuum	ML	gr. d. SILT (ML) moist reddish brown (2.5YR 4/4) gr. is A. shale frag.
10	3.1				laminated relict rock structure
11	3.4				Weathered Rock Fm
12	3.7				Terminate Boring @ 10.0
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0467

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Cole **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5' 4/5	Alluvial	SW	0'-7.5' si gr f-c SAND (SW) wet olive brown (2.5Y 4/3) gr is SR-WR alluvium # up to 2" diameter
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5/5			
8	2.4		Residuum	ML	7.5'-10' gr cl SILT (ML) moist pale yellow (2.5Y 7/4) gr is R laminated shale / weathered Rome Fm.
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 468

Date Started: 9.23.08 **Drilling Contractor:** Bart Lengyear **Page** 1 **of** 1

Date Completed: 9.23.08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	2.5 / 50	Alluvial	SW	0 to 12.5 silty gravely SAND moist to saturated, yellowish brown (10YR 5/6) gravel; subangular to Well Rounded up to 3" ϕ.
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	50 / 5.0			
7	2.1				
8	2.4				
9	2.7				
10	3.1				↑ Increased Rock (Zone of Increased gravel)
11	3.4	5.0 / 5.0			
12	3.7				
13	4.0		Residual	ML	12.5 to 15' "weathered Rome" silty CLAY, moist to wet, very pale brown (10YR 8/2) & Olive yellow (2.5Y 6/8). Trace amount of fine angular gravel.
14	4.3				
15	4.6				Boring terminated @ 15' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 469

Date Started: 10.6.08	**Drilling Contractor:** B. Longyear	**Page** 1	**of** 1		
Date Completed: 10.6.08	**Driller:** J. Robinson	**Survey Unit:** 16			
Logged By: K. Weir	**Equipment:** Minsonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	30/50	Alluvial	SW	(dry) gravelly SAND w/ some silt, grayish brown (10YR 5/2). Moist to saturated gravel: Sub-angular to well rounded up to 2½" ø
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	5.0/50			
7	2.1				
8	2.4				
9	2.7		Residual	ML	SILT, brownish yellow (10YR 6/8) & dark reddish brown (5YR 3/2), some angular gravel
10	3.1				Boring terminated @ 10' bgs Shale ~~siltstone~~ K. 10/6/08
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0470

Date Started: 9/29/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/29/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvial	SW	0'-5' si+gr f-c SAND, wet, dark greenish gray (GLEY 1 4/10Y/1) + gr is SR-WR alluvium # up to 1" in diameter
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			5'-10' gr cl SILT, wet-moist, yellowish brown (10YR 5/8), gr is A/laminated shale, Weathered Rock FM
6	1.8		Residuum	ML	
7	2.1				
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0471

Date Started: 9/15/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/15/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	0'-7.5' Alluvial	SW/GW	0'-7.5' - si. gr. f-c SAND, trace to sa. GRAVEL (SW/GW), wet 9/15/08
2	0.6	4'/5'			greenish gray (GLEY 1 6/10Y) gr. is sub-rnd alluvium & up to 2" diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4		7.5'-10' Residuum	ML	7.5'-10' cl. gr. SILT (ML) wet-moist brownish yellow (10YR 6/8) gr. is A laminated shale (weathered Rome F.M.)
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 472

Date Started: 9-23-08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9-23-08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∑	DESCRIPTION
		4.0	All	SW/GW	0 to 6'	silty gravely SAND to sandy
1	0.3					GRAVEL, light olive brown (2.5Y
		5.0				5/3) moist to saturated. gravel ->
2	0.6					subangular to well rounded up to 2" ϕ
3	0.9					
4	1.2					
5	1.5					
		5.0/5.0				
6	1.8		Res.	ML	6 to 10'	clayey SILT brownish yellow
7	2.1					(10YR 6/8) moist to wet. Some
						gravel / rock Frags. angular
8	2.4					dolostone up to ½" ϕ
						Weathered Rome Fm.
9	2.7					
10	3.1					Termination of Boring @ 10' bgs
11	3.4					
12	3.7					
13	4.0					
14	4.3					
15	4.6					
16	4.9					
17	5.2					
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0473

Date Started: 10/1/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/1/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW/GW	0'-8.5' si.gr.f.c. SAND & sa. GRAVEL (SW/GW) wet olive (5Y 4/3) gr is SR-WR alluvium to up to 2" in diameter
2	0.6	2.5'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4'/5'			
8	2.4				
9	2.7		Residuum	ML	8.5'-10' gr. d. SILT (ML) wet mottled reddish brown (2.5YR 4/4) gr is A. shale frag./relict rock structure
10	3.1				Terminate Boring @ 10.0'
11	3.4				~Weathered Rome Fm
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 474

Date Started: 9.22.08 **Drilling Contractor:** Bart Longyear **Page** 1 **of** 1

Date Completed: 9.22.08 **Driller:** J. Miller **Survey Unit:** 18

Logged By: K. Weir **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
		4.5	Alluvial	SW	0 to 12' silty gravely SAND, Moist, dark yellowish brown (10YR 4/4) gravel sub Angular to Well Rounded up to 2½" ϕ
1	0.3				
2	0.6				
3	0.9				
4	1.2				
5	1.5	5.0			
6	1.8	5.0			
7	2.1				
8	2.4				
9	2.7				
10	3.1	5.0			
11	3.4	5.0			
12	3.7		Residual	CL	12 to 15' Silty CLAY w/ little gravel/rock Frags. yellowish red (5YR 5/6) & yellow (10YR 7/8) gravel; angular to sub-angular up ¾" ϕ
13	4.0				
14	4.3				
15	4.6	5.0			Boring terminated at 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 475 ~~467~~ (KW) 9.22.08

Date Started: 9.22.08 **Drilling Contractor:** Bout Longyear **Page** 1 **of** 1

Date Completed: 9.22.08 **Driller:** J. Miller **Survey Unit:** 16

Logged By: K. Weir **Equipment:** mini-sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇	DESCRIPTION
1	0.3	4.5	Alluvial	SW	0 to 9'	silty gravely SAND moist to wet, yellowish brown (10YR 5/4) gravel Sub Angular to Well Rounded upto 2¾"ϕ
2	0.6					
3	0.9					
4	1.2					
5	1.5	5.0				
6	1.8	5.0				
7	2.1					
8	2.4			GW		
9	2.7					
10	3.1	5.0	Residual	ML	9 to 10'	clayey SILT moist to wet, weak red (10R 4/2) & redish yellow (7.5YR 6/8) some gravel: Angular to Sub-Angular upto ¾"ϕ (weathered Rock)
11	3.4					↳ Boring terminated at 10
12	3.7					
13	4.0					
14	4.3					
15	4.6					
16	4.9					
17	5.2					
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 476

Date Started: 10.6.08	**Drilling Contractor:** R. Longyear	**Page** 1	**of** 1		
Date Completed: 10.6.08	**Driller:** J. Robinson	**Survey Unit:** 16			
Logged By: K. Weir	**Equipment:** Mini-Sonic	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0'-5'	Alluvial	SW/GW	(6'-18') silty gravely SAND to sandy GRAVEL, grayish brown (10YR 5/2) moist to saturated.
1	0.3	2.5/5.0			gravel: sub-angular to well rounded ↳ upto 2½"ϕ
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8	5.0/5.0			
7	2.1				
8	2.4				
9	2.7		Residual	CL	Weathered Rome: silty CLAY, gray (7.5YR 6/1)
10	3.1				gravel: angular to subangular dolostone, max ¾"ϕ. Boring terminated at 10' bgs
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 477

Date Started: 10·6·08 **Drilling Contractor:** B. Longyear **Page** 1 **of** 1

Date Completed: 10·6·08 **Driller:** J. Robinson **Survey Unit:** 16

Logged By: K. Weir **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5'	Alluvial	SW	(Colluvial) silty gravely SAND; yellowish brown (10YR 5/4), wet to saturated gravel; sub-angular to well rounded up to 2" ϕ
1	0.3	2.5/5.0			
2	0.6				
3	0.9				
4	1.2				
5	1.5	4.5/5.0			
6	1.8	5-10'			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4	5.0/5.0	Residual	CL	Weathered Rome (Ka) ↳ silty CLAY; brownish yellow (10YR 6/8) & Bluish gray (GLEY2 5/5B). sub-angular to angular up to 1/2" ϕ (debstone)
12	3.7				
13	4.0				
14	4.3				
15	4.6				Boring terminated at 15' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0478

Date Started: 9/15/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/15/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si. gr. f-c SAND-sa. GRAVEL (SW/GW), wet, greenish gray GRY. 6/10Y/1), gr. is SR-WR alluvium, up to 2" in diameter
2	0.8	2'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			5'-7' SAA except light yellowish brown (10YR 6/4)
6	1.8				
7	2.1				7'-10' gr. sl. SILT (ML), wet-moist brownish yellow (10YR 6/8) gr. is A laminated shale (weathered Rona Fm)
8	2.4	5'/5'	Residum	ML	
9	2.7				
10	3.1		Bedrock	GW	9'-10' GRAVEL/Bedrock, dry, pale olive, shale Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0479

Date Started: 9/15/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/15/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW/GW	0-5' sing. f-c SAND-sm GRAVEL (SW/GW), wet, greenish gray (GLEY 1 6/10Y/1), gr is SA-WR alluvium & up to 2" in diameter
2	0.6				
3	0.9				
4	1.2				
5	1.5				5'-7.5' d. gr. sl. f-c SAND (SW), wet-moist, weak red (2.5YR 4/2), gr is SA-WR alluvium & shale
6	1.8	5'-10'		SW	
7	2.1				
8	2.4				7.5'-10' gr. cl. SILT (ML), brownish yellow (10YR 6/6), moist-dry, gr is A. laminated shale weathered Rancr F-M.
9	2.7		Residuum	ML	
10	3.1		Bedrock		Bedrock @ 9.5' Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0480

Date Started: 9/26/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 4'/5'	Alluvial	SW	0'-3' sig. gr. fc SAND, wet, olive gray (5Y 5/2), gr. is SR-WR alluvium to up to 2" in diameter
2	0.6				
3	0.9				
4	1.2			ML	3'-5' dk gr. SILT (ML), moist, weak red (10R 4/2), gr. is a laminated slate Weathered Rome Fm.
5	1.5		Residuum		
6	1.8	5'-10'	Bedrock	GW	5'-10' Bedrock/GRAVEL (GW), dry-moist, weak red, gr. is a slate laminated, slightly weathered
7	2.1	5'/5'			ROME FORMATION
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0481

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-3.5' sl. gr. f-c SAND - sa. GRAVEL (SW/GW), wet, olive gray (5Y 4/2)
2	0.6	5/5'			
3	0.9				3.5'-5' gr. cl. SILT (ML) wet, mod yellowish brown (10YR 5/4), gr is A laminated shale, relict rock structure/weathered
4	1.2		Residuum	ML	
5	1.5				Rare Fm.
6	1.8				Terminate Boring @ 5'
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0482

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-9' sing. f-c SAND - sa. GRAVEL (SW/GW), wet-moist, light olive
2	0.6	4'/5'	▽		brown (2.5Y 5/3), gr is SR-WR
3	0.9				alluvium * up to a 1" in diameter
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5'			
8	2.4				
9	2.7				9'-10' gr. cl. SILT (ML), moist, brownish
10	3.1		Residuum	ML	yellow (10YR 6/8) gr is ∆ laminated shale
					Terminate Boring @ 10.0' weathered Rome Fm.
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0483

Date Started: 9/9/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	∇ DESCRIPTION
1	0.3	0-5'	Alluvial	SW/GW	0-6' si gr f-c SAND - sa GRAVEL (SW/GW), wet, dkv gray (5Y 4/2), gr is SR-WR alluvium ≠ up to 2" in diameter
2	0.6				
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			6-10.0' gr cl SILT (ML) wet-most, brownish yellow (10YR 6/8) gr is A laminated tale relict rock structure observed/weathered, None FM
7	2.1		Residuum	ML	
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0184

Date Started: 9/8/08	Drilling Contractor: BART LONGYEAR	Page 1 of 1			
Date Completed: 9/8/08	Driller: JAMES ROBINSON	Survey Unit: 16			
Logged By: RODNEY CLARK	Equipment: MINISONIC	Elevation: TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-7.5' si. gr. f-c SAND, wet, greenish gray (GLEY 1 5/10Y/1), gr is SR-WR alluvium, gr is up to 2" diameter mostly c. quartz SAND, some gravel
2	0.6	4/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5/5			7.5'-10.0'
9	2.7		Residuum	ML	gr. cl. SILT (ML), wet-moist, brownish yellow (10YR 6/6) gr is A. laminated shale (weathered Rome Fm)
10	3.1				terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0485 ~~0585~~ RC 5/9/08

Date Started: 9/9/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-5' sl gr f-c SAND, sm GRAVEL (SW/GW) wet, olive gray (5Y 4/2), gr is SR-WR alluvium ≈ up to 2" in diameter
2	0.6	4/5			
3	0.9				
4	1.2				
5	1.5	5'-10'			5'-10' SAA except yellowish brown (10YR 5/6)
6	1.8				
7	2.1				
8	2.4	5/5			
9	2.7				
10	3.1				10'-15' gr cl SILT (ML), wet-moist greenish gray (GLEY 1 6/5GY/1) gr is A. laminated shale (weathered Rome Fm)
11	3.4	10'-15'			
12	3.7		Residuum	ML	
13	4.0				
14	4.3				
15	4.6				← Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0486

Date Started: 9/5/08 **Drilling Contractor:** BART LONGHEAD **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'			0'-5' si. sa. GRAVEL (GW) wet, olive gray (5Y 5/2) gr is SR-WR alluvium * up to 2" diameter (gr is quartz, schist, biotite gneiss)
2	0.6	2/5'	Alluvial	GW	
3	0.9				
4	1.2				
5	1.5				5'-10' si. gr. SAND, wet, saturated olive gray gr is SR-WR, alluvium
6	1.8	5'-10'		SW	
7	2.1				
8	2.4	3/5'	Alluvial		
9	2.7				
10	3.1				10'-15' gr. cl. SILT (ML) moist, yellowish brown (10YR 5/6) gr is A. laminated shale/weathered Rome Fm.
11	3.4	0'-15'			
12	3.7			ML	
13	4.0	5/5'	Residuum		
14	4.3				
15	4.6				15' - Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0487

Date Started: 9/5/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5	SW/GW	Re SW/GW	0'-6.5' SI, gr, f-c SAND, -sa, GRAVEL (SW/GW)
2	0.6	4/5	Alluvial	SW/GW	wet, olive gray (5Y 5/2), gr. is SR-WR alluvium, gr is up 2" diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10			6.5'-10' gr, cl, SILT (ML), wet, brownish yellow (10YR 6/6), gr. A. laminated, shale relict rock structure/weathered Rome Fm
7	2.1				
8	2.4	9/5	Residuum	ML	
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0488

Date Started: 9/15/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/15/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7.5' sl.gr. f-c SAND - sa. GRAVEL (SW/GW) wet, greenish gray (GLEY1 6/10Y/1), gr is SR-WR alluvium up to 2" diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			7.5'-10' gr. cl. SILT (ML) wet-moist, brownish yellow (10YR 6/8), gr is A laminated shale
8	2.4				
9	2.7		Residuum	ML	Weathered Zone Fm.
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0489

Date Started: 9/5/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' sil. gr. f-c SAND-sa GRAVEL (SW/GW) wet olive gray (5Y5/2) gr. is SR-WR alluvium up to 2" diameter
2	0.6				
		5/5'			
3	0.9				
4	1.2				
5	1.5				
		5-10'			
6	1.8				
7	2.1				7'-10' gr. cl. SILT (ML) wet moist, brownish yellow (10YR 6/6) gr. is A laminated shale / Weathered Rome Formation
		5/5			
8	2.4		Residuum	ML	
9	2.7				
10	3.1				↖ Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0490

Date Started: 9/26/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/26/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-3.5' sig. gr. f-c SAND, wet, olive gray (5Y 5/2) sgr is SR-WR alluvium
2	0.6	45/5'			~ up to 2" in diameter
3	0.9				3.5'-5' gr. of SILT (ML), moist, brownish yellow (10Y 5/2), gr. is A laminated slate/weathered
4	1.2		Residuum	ML	Rome Fm.
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0491

Date Started: 9/8/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: RODNEY CLARK **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-7' silty f-c SAND, wet, very dark grayish brown (2.5Y 3/2), gr is SR f-WR alluvium, most c. quartz sand.
2	0.6				
3	0.9	3/5'			
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	4'/5'			7'-10' gravel SILT (ML) wet-moist, brownish yellow (10YR 6/6), gr is A. laminated shale (weathered Rome formation)
8	2.4		Residuum	ML	
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0492

Date Started: 9/9/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7.5' si. gr. f-c SAND - sa. GRAVEL
2	0.6	3.5/5'			(SW/GW), dkg. gray (5Y 4/2), gr. is
					SR-WR alluvium, up to 2" diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5/5'			
					7.5'-10 - gr. cl. SILT (ML) wet-moist,
8	2.4				brownish-yellow (10YR 6/8), gr. is
9	2.7		Residuum	ML	a laminated shale
					Weathered Rome Formation
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0493

Date Started: 9/5/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-10' sl gr f-c SAND-sa, GRAVEL (SW/GW); wet; greenish gray (GLEY 1 6/10Y/1); gr. is SH-WR alluvium + up to 2" diameter
2	0.6				
3	0.9	5'/5'			
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				
10	3.1				0'-15' gr. cl. SILT (ML), wet-moist, brownish yellow (10YR 6/6) gr. is A talus/rock shale (weathered Pond FM)
11	3.4	10'-15'			
12	3.7		Residuum	ML	
13	4.0	5'/5'			
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0494

Date Started: 9/5/08 **Drilling Contractor:** BORTON BRAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW/GW	0'-8.5' si, gr, f-c SAND-sa, GRAVEL (SW/GW)
2	0.6				wet, olive gray (5Y 5/2), gr is SR-WR
		4'/5'			alluvium. sa is f-c quartz sand
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7		Residuum	ML	8.5-10' gr, cl-SILT (ML) wet-moist
					yellowish brown (10YR 5/6)
10	3.1				gr is A laminated shale/siltst
					fork structure observed.
11	3.4				Terminate Boring @ 10.0'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0495

Date Started: 9/5/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney M. Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-9' sl. gr. f-c SAND, (SW) wet yellowish brown (10YR 5/6), gr is SR-WR alluvium, mostly m-c quartz SAND, well graded
2	0.6	4.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				9'-10' gr. cl SILT, (ML), moist, greenish gray (GLEY 1 6/10Y), gr is A slate Weathered Rome Fm
10	3.1		Residuum	ML	terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0406

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clarke **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	GW	0'-1.5' GRAVEL (GW), wet, light olive brown (2.5Y 7/3) gravel is SR-WR (1.5' thick cobble/boulder)
2	0.6			SW	1.5'-9' si, gr f-c SAND (SW), wet, light olive brown, gr. is SR-WR * up to 2" diameter well graded, mostly c. quartz sand
3	0.9	3'/5'			
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			
8	2.4				
9	2.7		Residuum	ML	9'-10' gr, si, CLAY (CL), wet-moist, brownish yellow (10YR 6/8), gr is A. Shale (Weathered Rome Fm.)
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered.
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. 0497

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1
Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16
Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-6' si, gr f-c SAND, wet, ~~brownish yellow (10YR 6/8)~~ light olive brown (2.5Y 5/3) gr is SR-WR alluvium, gr is up 2" diameter
2	0.6	4'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'		CL	6'-10' gr, si, CLAY, (CL), wet, moist, brownish yellow (10YR 6/6), gr is A-laminated shale/weathered Rome Fm
7	2.1	5/5'	Residuum		
8	2.4				
9	2.7				
10	3.1				← Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0498

Date Started: 9/5/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/06 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW/GW	0'-7' si. gr. f-c SAND-sa. GRAVEL (SW/GW), moist olive gray (5Y 5/2) gr. is SR-WR alluvium & up to 2" diameter
2	0.6	4.5'/5'	Alluvial		
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				7'-10' gr. cl. SILTs (ML), moist brownish yellow (10YR 6/8), gr. is laminated shale / weathered Rome Formation
8	2.4	5/5			
9	2.7		Residuum	ML	
10	3.1				- terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0499

Date Started: 9/08/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-3' sl. gr. f-c SAND, wet, greenish gray (GLEY 1 5/10Y/1) sl. gr. is SR-WR alluvium
2	0.6	5'/5'			
3	0.9				3'-5' gr. c. SILT (ML) wet-moist, brownish yellow (10YR 6/6) gr. is A laminated shale weathered fine. Fr.
4	1.2		Residuum	ML	
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0500

Date Started: 9/08/08 **Drilling Contractor:** BOARS LONGYEAR **Page** 1 **of** 1

Date Completed: 9/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial		0'-5' - Sl. gr. f-c SAND, wet, grayish brown (2.5Y 5/2), gr. is SR-WR alluvium to up 2" diameter
2	0.6	3/5'		SW	
3	0.9				
4	1.2				
5	1.5				5'-10' gr. d. SILT, wet-moist, brownish yellow (10YR 6/6) gr. is A. laminated slate (weathered Rome Fm)
6	1.8	5-10'	Residuum		
7	2.1	5/5'		ML	
8	2.4				
9	2.7				
10	3.1				← Terminate Boring @ 10.0
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0501

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-7.5' sl gr f-c SAND, wet grayish brown (2.5Y 5/2) gr is SR-WR, alluvial ≠ up to 2" in diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1				7.5'-10' cl gr SILT (ML) moist (olive yellow 2.5Y 6/6 & pale yellow 2.5Y 7/3) gr is A laminated shale / relict rock structure
8	2.4	5'/5'			
9	2.7		Residuum	ML	
10	3.1				← Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0502

Date Started: 9/4/08 **Drilling Contractor:** BART LONGEAD **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8' si. gr. f-c SAND - si. sa. GRAVEL, wet, greenish gray (GLEY 1. 5/5GY/1), gr. is SR-WR alluvium # up to 2" diameter
2	0.6	3.5'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4'/5'			
8	2.4				8'-10' gr. si. CLAY (CL), wet-moist, light yellow brown (2.5Y 6/4), gr. is A- laminated shale/weathered, Rare Fm.
9	2.7		Residuum	CL	
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0503

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney M. Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si. gr. f-c SAND - sa. GRAVEL (SW/GW) wet yellowish brown (10YR 5/4), gr. is SR-WR alluvium (biotite gneiss, quartz
2	0.6	4/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1				7'-10' SILT RC 9/4/08
8	2.4	5/5'	Residuum	ML	si. gr. SILT (ML) very pale brown (10YR 7/3) moist, gr. is A. laminated Shale (weathered Rome Fm)
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0504

Date Started: 9/08/02 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/08/02 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-10' si, gr, f-c SAND, wet, grayish brown (2.5Y 5/2) gr. is SR-WR alluvium * up to 2" diameter
2	0.6	4.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				
10	3.1				10'-15' gr, si, CLAY, (CL) light yellowish brown (2.5Y 6/4), moist-wet, gr is A. laminated shale (weathered Rome Fm)
11	3.4	10'-15'			
12	3.7		Residuum	CL	
13	4.0	5'/5'			
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0505

Date Started: 9/4/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8.5' sl gr f-c SAND - sm GRAVEL (SW/GW) wet greenish gray (5GY 6/1) gr is SR-WR Alluvium gr is 2" in diameter
2	0.6	5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			8.5'-10' gr SILT (ML) (light yellowish brown) (2.5Y 6/4) gr is A. laminated shale & weathered Rock
7	2.1	5'/5'			
8	2.4				
9	2.7		Residuum	ML	
10	3.1				Terminate boring @ 10'
11	3.4				terminate boring @ 10'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0506

Date Started: 9/10/00 **Drilling Contractor:** BURT LONGYEAR **Page** 1 **of** 1

Date Completed: 9/10/00 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** JAMES ROBINSON **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-3' fine gr f-c SAND - sa GRAVEL (SW/GW) wet-moist yellowish brown (10YR 5/6) gr & SR-WR alluvium
2	0.6	3/5'	Backfill		* up to 2" in diameter
3	0.9				3'-5' gr cl SILT wet-moist light yellowish
4	1.2		Residuum		brown (10YR 6/4) gr is A. Lithomatted Zone / weathered Rock Formation
5	1.5				- Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0507

Date Started: 9/10/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/10/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-2.5' sing. f-c SAND w/ GRAVEL (SW/GW) wet, yellowish brown (10YR 5/6) gr. is SR-WR alluvium up to 2" diameter
2	0.6	4/5			
3	0.9				2.5'-5' gr. of SILT (ML) wet-moist, light yellowish brown (10YR 6/4) gr. is A. laminated slate (weathered Rome Formation)
4	1.2		Residuum	ML	
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0508

Date Started: 9/08/08 **Drilling Contractor:** BART LASKAR **Page** 1 **of** 1

Date Completed: 9/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: [illegible] **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-3' sl. gr. f-c SAND (SW), wet, green-gray (GLEY 1 5/10Y/1), gr. is SR-WR alluvium mostly c. quartz sand
2	0.6				
3	0.9	5/5'			3'-5' gr. d SILT (ML), wet-moist, light yellowish brown (2.5Y 6/4) gr. is f. laminated shale (weathered Rock Fill)
4	1.2		Residuum	ML	
5	1.5				Terminate Boring @ 5.0'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0509

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'		SW	0-5' si. gr. f-c SAND (SW) wet, greenish gray (GLEY 1 5/10Y/1) gr. is SR-WR alluvium gr. is up to 2" diameter
2	0.6	2.5'/5'	Alluvial		
3	0.9				
4	1.2				
5	1.5				5'-10' gr. cl. SILT (ML) wet, brownish yellow (10YR 6/6) gr. is A laminated shale/weathered zone (FM)
6	1.8	5-10'			
7	2.1	5'/5'	Residuum	ML	
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0510

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-6' sl. gr. f-c SAND - sl. sa. GRAVEL (SW/GW) wet, greenish gray (GLEY 1 5/10Y) gr. is SR-VR alluvium ≥ up to 2" in diameter
2	0.6	2.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5-10'	Residual	ML	6'-10' gr. cl. SILT (ML) light yellowish brown (10YR 6/4) gr. is laminated shale / relict rock structure observed; Weathered Rome Fm.
7	2.1				
8	2.4				
9	2.7				
10	3.1				Terminated Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0511

Date Started: 9/4/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0-10' si, gr f-c SAND, wet, light yellowish brown (2.5Y 6/4), gr is SR-WR alluvium up to 2" diameter, well-graded, mostly c. quartz sand
2	0.6	2.5/5	Alluvial		
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	3/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'		GW	10'-13' si, sa, GRAVEL, wet, (GW) light yellowish brown, gr is SR-WR alluvium up to 3" diameter (schist, quartz, biotite gneiss), basal GRAVEL
12	3.7	5/5'			
13	4.0				13'-15' gr, cl, SILT, (ML), wet, brownish yellow (10YR 6/6), gr is saturated shale (weathered Rome Formation), relict rock structure
14	4.3		Residuum	ML	
15	4.6				
16	4.9				Terminate Boring @ 15'
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 05/2

Date Started: 9/4/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/4/08 **Driller:** JAMES ROBINSON **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-9' sl. gr. f-c SAND (SW) wet, greenish gray (GLEY 1 6/10Y/1), gr is SR WR alluvium, well graded, gr is up to 2" diameter
2	0.6	3.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5'			
9	2.7				9'-10'
10	3.1		Residuum	ML	gr. d. SILT (ML), wet-moist, light gray (2.5Y 7/2), gr is A laminated shale, relict rock structure observed
11	3.4				
12	3.7				Terminate Boring @ 10' @ Rc 10/14/08
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0513

Date Started: 9/3/2008 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/2008 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-6' si gr f-c SAND-sa GRAVEL (SW/GW) wet gr is SR-WR Alluvium (olive gray (5Y 5/2) gr is up 1" diameter)
2	0.6	4/5			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'	Residuum	ML	6'-10' gr cl SILT (ML) light yellowish brown (2.5Y 6/4) gr is A lumpy (dark weathered) RONA FIN plastic / relict rock structure
7	2.1	5/5			
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0514

Date Started: 9/5/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW		0'-6' si. gr. f-c SAND, wet, olive gray (5Y 5/2) gr. is SR-WR alluvium up to 2" diameter
2	0.6	2/5'				
3	0.9					
4	1.2					
5	1.5					
6	1.8	5'-10'				6'-10' gr. cl. SILT (ML), wet-mst. brownish yellow (10YR 6/8) gr. is A-laminated shale/weathered Rone Fm.)
7	2.1					
8	2.4	5/5'	Residuum	ML		
9	2.7					
10	3.1					← Termination Boring @ 10'
11	3.4					
12	3.7					
13	4.0					
14	4.3					
15	4.6					
16	4.9					
17	5.2					
18	5.5					
19	5.8					
20	6.1					

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0515

Date Started: 10/8/08 **Drilling Contractor:** BART LONGCAR **Page** 1 **of** 1

Date Completed: 10/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-1.5' gr, si, f-c SAND (SW) wet, very dark gray (7.5YR 3/1) gr is SR-WR alluvium & up to 1" in diameter
2	0.6				
3	0.9		Residuum	CL	1.5'-5' gr, si, CLAY (CL) moist, light yellowish brown (2.5Y 6/4) gr is A. slate
4	1.2				—Weathered Rome Formation
5	1.5				Terminate Boring @ 5'
		5'-10' Re 10/8/08			
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0516

Date Started: 10/8/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	~~Alluvial~~	CL	0'-5' gr. sd. CLAY (CL) moist-wet, light yellowish brown
2	0.6	RC 10/14/08	Residuum		(2.5Y 6/4), gr is A. laminated shale
3	0.9				Weathered Rarz Formation
4	1.2				JK sampled A & B intervals
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0517

Date Started: 9/9/08 **Drilling Contractor:** BART LONGNEAR **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-5.5' si. gr. f-c SAND - sa. GRAVEL (Fill) wet, olive gray (5Y 5/2), gr. is SR-WR alluvium, up to 2" in diameter
2	0.6	2'/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			5.5'-10'
6	1.8				gr. cl. SILT (ML), wet-moist, brownish yellow (10YR 6/6), gr. is A. laminated shale (weathered Rome Fm)
7	2.1	5'/5'	Residuum	ML	
8	2.4				
9	2.7				
10	3.1				Terminate Boring @ 10.0
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0518

Date Started: 8/28/06 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/28/06 **Driller:** JASON CRICK **Survey Unit:** 16

Logged By: Rodney Rich **Equipment:** MINISON IC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-2.5' si.gr. f-c SAND, wet, dive gray (5Y 5/2), gr. is SR-WR & up to 1" in diameter
2	0.6				
3	0.9	100% 5/5'	Residuum	CL	2.5'-5' si.gr. CLAY (CL), moist, light yellowish brown (2.5Y 6/3) gr. is A. laminated shale fragments, Cone Fm, & Terminate Boring @ 5'
4	1.2				
5	1.5				
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0519 ~~0419~~ 8/29/08

Date Started: 8/27/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** Justin Miller **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4' sl. gr. f-c SAND, saturated, olive (5Y 5/4) gr. is SR-WR Alluvium & up to 2" diameter
2	0.6	4'/5'			
3	0.9				
4	1.2				4'-9' cbyey gr. SILT (ML), wet, pale yellow (2.5Y 7/3), gr. is A. laminated shale/ ~~mudstone~~ (weathered Rome Fm) RC 10/14/08
5	1.5		Residuum		
6	1.8	5'-10'	Residuum	ML	
7	2.1				
8	2.4	3.5'/5'			
9	2.7				9'-10' - GRAVEL (GW/Bedrock) wet, gravel is A. shale/mudstone, weathered Rome Fm
10	3.1		Bedrock	SW	Terminate Boring @ 10' RC 10/14/08
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0520

Date Started: 9/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clack **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	GW	0'-2.5' si, sa, GRAVEL (GW), wet, olive gray (5Y 5/2) sa, is f-c, gr is SR-WR alluvium up to 1" in diameter
2	0.6	5/5'			
3	0.9		Residuum	ML	2.5'-5' gr, cl, SILT, ML, wet, brownish yellow (10YR 6/8), gr is A. shale/ laminated mudstone (Weathered Rome Fm)
4	1.2				
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

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BORING NO. 0521

Date Started: 9/3/08	**Drilling Contractor:** BART LONGYEAR	**Page** 1	**of** 1
Date Completed: 9/3/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0'-5' si. gr. f-c SAND, wet (SW) olive-gray (5Y 4/3), gravel is SR-WR alluvium, up to 2" in diameter
2	0.6				
3	0.9	3/5'	Alluvial		
4	1.2				
5	1.5				
6	1.8	5'-15'		ML	5'-13.5' gr. cl. SILT (ML), wet, brownish yellow (10YR 6/8), gr is A. Shale laminated ~~Mudstone~~ (weathered Rome Fm)
7	2.1				
8	2.4	7/10'	Residuum		RC 10/14/08
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3		Bedrock	GW	13.5'-15' si. gravel, moist, dry, weathered (10R 4/3), gr is A. Shale (Rome Fm)
15	4.6				Terminated boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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BORING NO. 0522

Date Started: 9/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0'-8' si, gr, f-c SAND, wet, olive gray (5Y 5/2) gr. 1s SR-WR # up to 1" diameter
2	0.6	5/5'	Alluvial		mostly f-c SAND quartz
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5/5'			8'-10' gr, d SILT, ML, wet, light yellowish brown (2.5Y 6/4) gr. is A. Shale fragments (weathered Rome Fm)
9	2.7		Residuum	ML	
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0523

Date Started: 9/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-8.5' si gr. f-c SAND - si GRAVEL (GW/SW), wet, olive gray (5Y 4/2), gr is SR-WR # up to 2" diameter well graded
2	0.6	4/5'		GW	
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1				
8	2.4	5/5'			8.5'-10' si GRAVEL, GW, moist to dry weak-red (10R 4/2) gr is A. shale/~~mudstone~~ weathered Rome Formation) R. 10/14/08
9	2.7		Residuum	GW	
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0524

Date Started: 9/3/06	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 9/3/06	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney/M. Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-5' sl. gr. f-c SAND to sl. GRAVEL (SW/GW) olive gray (5Y5/2) wet, gr. is SR-WR, up to 1" diameter
2	0.6	4"/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'	Residuum		5'-10' gr. d. SILT (ML) wet-moist yellowish brown (10YR 5/6), gr. is A. shale/ laminated mudstone (weathered Rome Fm)
7	2.1	5"/5'		ML	RC 10/14/06
8	2.4				
9	2.7				
10	3.1				
11	3.4				Terminate Boring @ 10.0'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0525

Date Started: 10/8/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' sl. gr. f-c SAND (SW) wet very dark gray (7.5YR 3/1), gr is SR-WR of alluvium & up to 2" in diameter
2	0.6	1.5'/5'			
3	0.9				
4	1.2				
5	1.5				5'-10' gr sl. CLAY (CL) moist-wet, light yellowish (2.5Y 6/4) gr is laminated shale ~ Weathered Rome Fm
6	1.8	5'-10'	Residuum	CL	
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				Terminated Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0526

Date Started: 10/08/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-9.5' si.gr.f-c SAND, wet, dark gray (2.5Y 4/1) gr is SR-WR, alluvium, ≠ up to 12" in diameter
2	0.6				
		4'/5'			
3	0.9				
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
		1'/5'			
8	2.4				
9	2.7				
					9.5'-15' si.gr. CLAY to gr.cb. SILT (N4/2) wet-moist, light yellowish brown gr is A. laminated shale
10	3.1				
		10'-15'			
11	3.4				
				CL/ML	Weathered Tonne Formation
12	3.7				
		4'/5'	Residuum		
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0527

Date Started: 10/08/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' orgr f-c SAND, moist-wet, very dark gray (7.5YR 3/1). gr is SR-WR & up to 2" in diameter
2	0.6	3/5'			mostly f-m quartz SAND
3	0.9				
4	1.2				
5	1.5				5'-10'
		5-15'			
6	1.8				gr, SILT CLAY to gr c SILT (ML/CL) moist-wet,
				ML	pale yellow (2.5Y 7/3). gr is A.
7	2.1			CL	laminated shale / weathered
					Rare f-m
8	2.4	10/	Residuum		Sample to C interval as directed
9	2.7	10'			by JK
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				Terminated Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0528

Date Started: 9/9/08 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** Rodney Clark **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 3/5'	Alluvial Fill	SW/GW	0'-6.5' s.gr.f-c SAND - sa. GRAVEL (SW/GW), wet-saturated, olive gray (5Y 5/2), gr. is A-VF to up to 2" diameter, some gr. is alluvium some gr. is A. slate alluvium
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10' 3/5'			
6	1.8				
7	2.1				6.5'-10' gr.cl. SILT (ML), wet, light yellowish brown (2.5Y 6/4), gr. is A. laminated (weathered, Rock Fm),
8	2.4		Residuum	ML	
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0529

Date Started: 8/27/08 **Drilling Contractor:** BAKER LONGYEAR **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: RODNEY CLARK **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4.5' si, gr, f-c SAND (SW), wet-moist, greenish gray (GLEY 1 5/10Y) gr is SR-WR up to 2" diameter
2	0.6				
3	0.9	5'/5'			
4	1.2				4.5'-5' gr, si, CLAY (CL), wet, greenish gray (GLEY 1 5/10Y), gr is A laminated shale/mudstone (weathered Rome Fm)
5	1.5		Residuum	CL	
6	1.8				Terminate Boring @ 5' 10/14/08
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0530 ~~0430~~ RC 9/27/08

Date Started: 8/27/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: [illegible] **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5'		SW	0'-2' gr. SAND (SW) wet, olive (5Y 5/4),
1	0.3		Alluvial	ML	0'-4' d.gr. sa. SILT (ML), wet, olive (5Y 5/4)
2	0.6	4.5'/5'			gr. is SR-WR. # gr is up to 2" diameter RC 8/27/08
3	0.9			ML	
4	1.2				4'-5' d.gr. SILT (ML), wet, pale yellow
5	1.5		Residuum		(2.5Y 7/3), gr. is A. laminated shale ~~[illegible]~~ RC 10/14/08
6	1.8				Weathered Rome Fm.
7	2.1				Terminate Boring @ 5'
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0531

Date Started: 8/27/08 Drilling Contractor: BART LONGSTAFF Page 1 of 1

Date Completed: 8/27/08 Driller: JUSTIN MILLER Survey Unit: 16

Logged By: RODNEY CLARK Equipment: MINISONIC Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4' sl gr. f-c SAND (SW) wet moist, greenish gray (GLEY 1 5/10Y/1) gr is SR-WR. sa is f-c quartz sand
2	0.6	4.5'			
3	0.9	/5'			
4	1.2		Residuum	ML	4'-5' gr. dk SILT (ML), moist-wet, greenish gray (GLEY 1 6/10Y/1) gr. is A. shale/mudstone (weathered)
5	1.5				Terminate Boring @ 5' (Rome Fm) RC 10/14/08
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0532

Date Started: 8/27/08 Drilling Contractor: BOART LONGYEAR Page 1 of 1

Date Completed: 8/27/08 Driller: JUSTIN MILLER Survey Unit: 16

Logged By: RODNEY CLARK Equipment: MANSONIA Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4.5' si, gr, f-c SAND (SW), olive (5Y 5/4), gr. is SR W/R up to 2" diameter mostly f-c quartz SAND
2	0.6				
3	0.9	5'/5'			
4	1.2				
5	1.5		Residuum	ML	4.5'-5' gr, si, CLAY (ML) light yellowish brown (2.5Y 6/3) wet, gr is A-shale/ ~~mudstone~~ (weathered Rome Fm) PC 10/14/08
6	1.8				
7	2.1				Terminate Boring @ 5.0'
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0533

Date Started: 8/27/08	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 8/27/08	**Driller:** JUSTIN MILLER	**Survey Unit:** 16	
Logged By: RODNEY CLARK	**Equipment:** MANISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-7' Si.gr.f-c SAND, wet, olive gray (5Y 5/2), gr is SR-WR, up to 2" diameter
2	0.6	2.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			7'-10' gr.si.CLAY(CL) light yellowish brown (2.5Y 6/3), wet, gr is A. shale/mudstone (Rome Formation).
8	2.4		Residuum	CL	
9	2.7				
10	3.1				← Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0534

Date Started: 8/27/08	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 8/27/08	**Driller:** JUSTIN MILLER	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' si, gr, f-c SAND (SW), moist-wet, olive gray (5Y 5/2), gr is SR-WR & up to 1" in diameter
2	0.6			▽	
3	0.9	4/5'			W.T. @ appx 2' BGS
4	1.2				
5	1.5				5'-6' SAA except yellowish brown (10YR 5/6)
6	1.8	5'-10'			
7	2.1				6'-10' gr, si, CLAY (CL), wet, brownish yellow (10YR 6/6), gr is A. shale (weathered Rome Formation)
8	2.4	5/5	Residuum	CL	
9	2.7				
10	3.1				Terminated Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0535

Date Started: 10/08/08	**Drilling Contractor:** BRART LOUGHYEAR	**Page** 1	**of** 1		
Date Completed: 10/08/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16			
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvial	SW	0'-9.5' sl. gr. f-c SAND (SW) wet, most, dark
1	0.3				gray (2.5Y 4/1), gr is SR-WR alluvium
2	0.6	5/5'		▽	7 up to 2" in diameter, mostly m-c
					quartz sand, ~~some~~ wood debris
					trace RB 10/8/08
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10			
7	2.1	4/5'			
8	2.4				
9	2.7				
					9.5'-15' gr. el. SILT (ML), most, light
10	3.1				yellowish brown (2.5Y 6/4) gr is A!
		10'-15'		ML	laminated shale
11	3.4		Residuum		Weathered Rome Fm.
12	3.7				
13	4.0	5/5'			
14	4.3				
15	4.6				Terminate Boring 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0536

Date Started: 10/08/08 Drilling Contractor: BOART LONGYEAR Page 1 of 1

Date Completed: 10/08/08 Driller: JAMES ROBINSON Survey Unit: 16

Logged By: Rodney Clark Equipment: MINISONIC Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-5' sl. gr. f-c SAND (SW) wet, very dark gray (7.5YR 3/1); gr is SR-WR alluvium to up to 1" in diameter
2	0.6	3/5'			
3	0.9				
4	1.2				
5	1.5				5'-15' gr. cl. SILT-sl. CLAY (ML/CL)
6	1.8	5'-15'	Residuum	ML/CL	wet-moist, light yellowish brown (2.5Y 6/4), gr. is A. laminated shale/weathered Rone Fm.
7	2.1				
8	2.4				
9	2.7	7/10'			
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0537

Date Started: 10/8/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Trading Clerk **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvial	SW	0'-1.5' - si. gr. f-c SAND, wet (SW), very dark
1	0.3			▽	gray (7.5YR 3/1), gr is SR-WR alluvium
					& up to 1" in diameter
2	0.6				1.5'-5' gr. si. CLAY (CL) moist, light yellowish brown
3	0.9		Residuum	CL	(2.5Y 6/4) gr. is A. Shale
					Weathered Rome Fm.
4	1.2				→ JK samples B interval
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0538

Date Started: 9/9/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW/GW	0-5' silt f-c SAND-sa GRAVEL (SW/GW), wet-saturated, gr is SP-WB alluvium - ≠ up to 2" in diameter
2	0.6	3/5'	▽	▽	WT. @ appx 2.0' BGS
3	0.9				
4	1.2				
5	1.5				5'-10' gr, cl, SILT (ML), wet-moist, brownish yellow (10YR 6/8), gr. is A. laminated shale (weathered Rome Formation)
6	1.8	5'-10'			
7	2.1			ML	
8	2.4	5/5'	Residuum		
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. ~~0439~~ 0539 Rev 9/22/08

Date Started: 8/27/08 **Drilling Contractor:** BART LONGREAR **Page** 1 **of** 1

Date Completed: 8/27/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-11' si.gr.f-c SAND, wet, greenish gray (5/10Y/1 GLEY 1), gr. is SR-WR ≠ up to 2" diameter
2	0.6	4'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			11'-15' gr.si.CLAY.CL, wet, pale yellow (2.5Y 7/3), gr. is laminated shale (weathered Rose Fm)
12	3.7	5'/5'		CL	
13	4.0		Residuum		
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0540

Date Started: 9/3/08	**Drilling Contractor:** BART LONGYEAR	**Page** 1	**of** 1
Date Completed: 9/3/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-7' si, gr, f-c SAND-sa GRAVEL (SW/GW) wet, olive gray (5Y 5/2), gr is SR-WR B up to 2" diameter.
2	0.6	3.5'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	5'/5			7'-9' gr, si, CLAY (CL) wet, mott. yellowish brown (10YR 5/6), gr is A shale (weathered Rome Fm)
8	2.4		Residuum	CL	
9	2.7				
10	3.1		Bedrock	GW	9'-10 GRAVEL (GW) dry, light gray (2.5Y 7/2) - gr: is A laminated shale (Bedrock / Rome Fm
11	3.4				
12	3.7				Terminate Boring @ 10.0'
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0541

Date Started: 8/28/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 8/28/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-5' si,gr,f-c SAND - si,sa,GRAVEL (SW/GW), wet greenish gray (GEY 1 5/10Y) gr. is SR-WR ∄ up to 2" diameter
2	0.6	4/5'			
3	0.9				
4	1.2				
5	1.5	5'-15'			5'-15' SAA except saturated ∄ yellowish brown (10YR 5/6)
6	1.8				
7	2.1				
8	2.4	5/10'			
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-19.5' gr,si CLAY (CL) wet, light yellowish brown (2.5Y 6/3), gravel is A. shale/mudstone (weathered Rome Formation)
16	4.9				
17	5.2	5/5'	Residuum	CL	
18	5.5				
19	5.8				19.5'-20.0' GRAVEL (GW/Bedrock) moist dry weakly red (10R 4/2) gr. is A. shale/Mudstone (Rome Fm)
20	6.1		Bedrock	GW	

Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23.05.02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0542

Date Started: 9/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0'-5.5' si. gr. f-c SAND, moist-wet, greenish gray (GLEY1 5/5GY/1), gr is SR-WR alluvium, up to 2" diameter
2	0.6				
3	0.9	4.5'/5'	Alluvial		
4	1.2				
5	1.5				
6	1.8	5'-10'		ML	5.5'-7' cl. SILT (ML), moist-wet, brownish yellow (10YR 6/6), trace, A. shale/relict rock structure absent, Weathered Rome Fm.
7	2.1	5/5'	Residuum		7'-9.5' gr. si. CLAY (CL) moist-wet, brownish yellow, gr is laminated
8	2.4			CL	shale, Weathered Rome Fm
9	2.7				
10	3.1		Bedrock	GW	9.5'-10' GRAVEL/Bedrock (GW), wet, light yellowish brown (10YR 6/4), gr is shale fragments. Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0543

Date Started: 10/8/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4.5' si gr f-c SAND moist-wet, dark grayish brown (2.5Y 4/2), gr is SR-WR alluvium & up to 2" in diameter
2	0.6	4'/5'		▽	W.L. = appx 2'
3	0.9				
4	1.2				4.5'-10' gr si CLAY (CL) wet-moist, light yellowish brown (2.5Y 6/4) gr is Angular laminated shale/Weathered Rome Formation
5	1.5	5'-10'		CL	
6	1.8		Residuum		
7	2.1				
8	2.4	5'/5'			
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0544

Date Started: ~~10/8/05~~ 10/9/05 **Drilling Contractor:** EQUART CONSTRUCT **Page** 1 **of** 1

Date Completed: ~~10/8/05~~ 10/9/05 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5' si.gr.f-c SAND (SW), wet, olive
1	0.3		Alluvial	SW	gray (5Y 5/2), gr is SR-WR alluvium
2	0.6	1.5'/5'		▽	& up to 1" in diameter
3	0.9				
4	1.2				
5	1.5				5'-10' gr.cl.SILT (ML) moist
		5'-10'			light yellowish brown (2.5Y 6/4)
6	1.8				gr is A laminated shale
7	2.1		Residuum	ML	Weathered Rome Formation
		5'/5'			
8	2.4				
9	2.7				
10	3.1				Terminated Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0545

Date Started: 10/9/08 **Drilling Contractor:** BEART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5' dry, SILT, (ML) moist, light yellowish brown
1	0.3		Residuum	ML	(2.5Y 6/4), gr is A laminated shale
2	0.6	2/5'			Weathered Rome FM.
3	0.9				-Note: Residuum observed @ surface
4	1.2				Only sample A interval
5	1.5				Terminate Boring @ 5.0'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0546

Date Started: 9/11/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/11/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-6' sl. gr. f-c SAND, wet, greenish gray (GLEY 1 5/10Y/1), gr. is SR-WR alluvium
2	0.6	2'/5'			∃ up to 2" in diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			6'-10' gr. cl. SILT (ML), wet-moist, brownish yellow (10YR 6/8), gr. is
7	2.1	5'/5'		ML	A laminated shale/siltstone
8	2.4		Residuum		Rose Formation
9	2.7				
10	3.1				10' - Terminate Boring
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0547

Date Started: 8/28/08 **Drilling Contractor:** BOART LONGEAR **Page** 1 **of** 1

Date Completed: 8/28/08 **Driller:** JUSTIN MILLER **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'		SW/GW	0'-9' sl. gr. f-c SAND - sl. sa. GRAVEL, wet - saturated, greenish-gray (Gley 1 5/5GY/1) gr. is SPHERE, ≠ up to 3" diameter encountered 1.5' thick cobble/boulder from 3'-4.5'
1	0.3		Alluvial		
2	0.6	2.5/5'			
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				9'-10' gr. si. CLAY, (CL) wet, yellowish-brown (10YR 5/4), gr is A. shale/mudstone (weathered Rone Fm)
10	3.1		Residuum	CL	Terminated Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0548

Date Started: 9/3/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/3/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'		SW	0'-7.5' si, gr, f-c well graded SAND, wet,
2	0.6	3/5'	Alluvial		greenish gray (GLEY1 6/10Y/1), gr is SR-WR alluvium up to 1" diameter
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'-10'			7.5'-10' gr, si, CLAY (CL), wet,
7	2.1				grayish brown (10YR 5/2), gr is A laminated shale
8	2.4	5/5			(weathered Rome Formation)
9	2.7		Residuum	CL	
10	3.1				← Terminate Boring @ 10.0'
11	3.4				
12					
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0549

Date Started: 9/5/06 **Drilling Contractor:** BART LONGEAR **Page** 1 **of** 1

Date Completed: 9/5/06 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
1	0.3	0'-5'	Alluvial	SW/GW	0'-8' sl gr f-c SAND, sa, GRAVEL, (SW/GW) wet, olive gray (5Y 5/2) gr is SR-WR alluvium ≠ up to 2" diameter
2	0.6				
3	0.9	5'/5'			
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
8	2.4	5'/5'			8'- gr sl CLAY, (CL) wet-moist, brownish yellow (10YR 6/8) gr is
9	2.7		Residuum	CL	A. laminated shale/weathered Rock
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0550

Date Started: ~~10/8/08~~ 10/9/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: ~~10/8/08~~ 10/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-4.5' si. gr. f-c SAND (SW), wet, olive
1	0.3		Alluvial	SW	gray (5Y 5/2), gr is SR-WR alluvium
					# up to 1" in diameter
2	0.6	4/5'			
3	0.9				
4	1.2				4.5'-5.0' - gr. d. SILT (NV), moist, light
5	1.5		Residuum	ML	yellowish brown (2.5Y 6/3) gr is
					A laminated/weathered Rama
6	1.8				Formation
7	2.1				Terminate Boring @ 5.0'
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0551

Date Started: 10/9/06	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1
Date Completed: 10/9/06	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: R.	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW	0'-2' sing. f-c SAND (SW), wet, olive gray (5Y 5/2) gr is SR-WR alluvium ≠ up to 1" in diameter
2	0.6	3'/5'			
3	0.9		Residuum	ML	2'-5' gr. d. SILT (ML) moist, light yellowish brown (2.5Y 6/4) gr is A. laminated slate
4	1.2				Weathered Rome Formation
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0552

Date Started: 10/9/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/9/08 **Driller:** James Robinson **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	▽ DESCRIPTION
		0-5'			
1	0.3		Alluvial	SM	0'-3.5' cl. si. SAND (SM) wet dark grayish brown (2.5Y 4/2). trace gr. gr is alluvium SR-WR, some Micaceous, mostly fine quartz sand 30-40% Silt, slightly plastic
2	0.6	5/5			
3	0.9				3.5'-5'. gr. cl. SILT (ML) moist light yellowish (2.5Y 6/4) gr is A. laminated shale (Weathered Rock Fr)
4	1.2		Residual	ML	
5	1.5				Terminate Boring @ 50'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0553

Date Started: 10/9/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5' cl-gr SILT (ML) light-yellowish
1	0.3			ML	brown (2.5Y 6/4) gr fs ~ 1' laminated
			Residuum		Shale (weathered Rome Formation)
2	0.6				- Residuum observed @ surface
3	0.9				- Collect A sample only
4	1.2				
5	1.5				Terminate Boring @ 5.0'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0554

Date Started: 9/08/05 **Drilling Contractor:** BART LONGXEA **Page** 1 **of** 1

Date Completed: 9/08/05 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-4.5' sing. f-c SAND, wet, greenish gray (GLEY 1 5/10Y/1), gr. is SR-VR alluvial gr. is up to 2" diameter
2	0.6				
		4'/5'			
3	0.9				
4	1.2				4.5'-10.0' gr. si. CLAY (CL), wet-most, light yellowish brown (2.5Y 6/4) gr. is A. laminated shale (weathered Rome Fm)
5	1.5				
6	1.8	5'-10'	Residuum	CL	
7	2.1				
		5'/5'			
8	2.4				
9	2.7				
10	3.1				← Terminate @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0555

Date Started: 9/08/08 **Drilling Contractor:** BART LONGTEAR **Page** 1 **of** 1

Date Completed: 9/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3			SW	0'-6' si gr f-c SAND wet, greenish gray (GLEY 1 5/10Y/1), gr is SR-WR
2	0.6	2'/5'	Alluvial		alluvium, gr is up 2" diameter
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8		Alluvial / Residuum		6'-10' gr si CLAY (CL), wet-moist, light yellowish brown (2.5Y 6/4) relict rock structure, gr is
7	2.1	5'/5'		CL	A. laminated slate (weathered Rone Fm)
8	2.4				
9	2.7				
10	3.1				← Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0556

Date Started: 9/5/06 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/5/06 **Driller:** JAMES ROBINSON **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0'-5' si, gr f-c SAND, wet, greenish gray (5GY 1.6/1.0x/μ), gr. is SR-WR alluvium
2	0.6	4/5'			# up to 2" diameter
3	0.9				
4	1.2				
5	1.5				5'-10' gr, si, CLAY, wet-moist, brownish
6	1.8	5'-10'			yellow (10YR 6/8) gr. is Attenuated
7	2.1				shale / relict rock structure
8	2.4	5/5	Residuum	CL	(weathered Rome Fm.)
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0557

Date Started: 10/9/08 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 10/9/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Clad **Equipment:** MINISON IC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-5'			0'-3' gr. si. SAND (SM), wet, dark greenish gray (GLEY 1 4/10Y/1), trace-1% lithic gr. gr. is SR-WR alluvium, some mica, mostly fine-m. grained quartz SAND
1	0.3		Alluvial	SM	
2	0.6				
		5/5'			
3	0.9				3'-5' gr. cl. SILT (ML) moist, light yellowish brown (2.5Y 6/4), gr. is A laminated shale Weathered Rose Formation
4	1.2		Residuum	ML	
5	1.5				← Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0558

Date Started: 10/9/08	**Drilling Contractor:** BOART LONGYEAR	**Page** 1 **of** 1	
Date Completed: 10/9/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvial	SW	0'-2' sl. gr. f. c. SAND (SW) wet, very dark gray (2.5Y 3/1) gr is SR. WR Alluvium up to 2" in diameter
2	0.6	4"/5'			2'-5' gr. cl. SILT (ML) moist, very pale brown (10YR 7/3), gr is A. laminated
3	0.9		Residuum	ML	shale / Weathered Rome Formation
4	1.2				
5	1.5				Terminate Boring @ 5'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. 0559

Date Started: 9/8/08 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 9/8/08 **Driller:** JAMES ROBINSON **Survey Unit:** 6

Logged By: Rodney Clark **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5	Alluvial	SW	0'-5.5' sl. gr. f-c SAND, wet, very dark grayish brown (2.5Y 3/2), gr. is SR-WR, alluvial mostly c. quartz sand
2	0.6	1'/5'			
3	0.9				
4	1.2				
5	1.5				
6	1.8	5'/10			5.5-10' gr. sl. SILT (ML), wet-moist, light yellowish brown (2.5Y 5/4), gr. is laminated shale (weathered Rome Fm)
7	2.1	5'/5'	Residuum	ML	
8	2.4				
9	2.7				
10	3.1				Terminated Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0560

Date Started: 9/06/08	**Drilling Contractor:** FORTLONGFAR	**Page** 1	**of** 1
Date Completed: 9/08/08	**Driller:** JAMES ROBINSON	**Survey Unit:** 16	
Logged By: Rodney Clark	**Equipment:** MINISONIC	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvial	SW	0'-3.5' sl. gr. f-c SAND, wet, greenish gray (GLEY 1 5/10Y/1), gr. is SR-WR alluvium, ? up to 2" diameter
2	0.6	3/5			
3	0.9				3.5'-10' gr. sl. CLAY (CL), wet-moist, light yellowish brown (2.5Y 6/4) gr. is a laminated shale
4	1.2				
5	1.5			CL	Relict Rock Structure (Weathered Rock > Fm)
6	1.8	5'-10'	Residuum		
7	2.1				
8	2.4	5/5			
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. 0561

Date Started: 9/08/08 **Drilling Contractor:** BEART LOUISVILLE **Page** 1 **of** 1

Date Completed: 9/08/08 **Driller:** JAMES ROBINSON **Survey Unit:** 16

Logged By: Rodney Cole **Equipment:** MINISONIC **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-5'	Alluvial	SW	0-3 sl.gr, f-c SAND, wet, greenish gray, (GLEX 1 5/10Y 6/1) gr. to SL-WR alluvium, ~ up to 1" mdn in diameter
2	0.6				
3	0.9	4.7 / 5'			3-5' gr. SI. CLAY, moist, light yellowish brown (2.5 6/4), gr. to A. laminated shale (weathered Rone Fm)
4	1.2		Residuum	CL	
5	1.5				Terminated Boring @ 5.0'
6	1.8				
7	2.1				
8	2.4				
9	2.7				
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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Appendix D.6

Soil Boring Logs

Survey Unit 17

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-612

Date Started: 4/4/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 4/4/11 Driller: Jeremy Triepke Survey Unit: 17

Logged By: Rodney Clark Equipment: Minisonic Track Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0'-3' dark olive brown (2.5Y 3/3) clayey f-c SAND, (SC) w/some SA-SR gravel & gr. up to 2" in Ø moist
1	0.3				
2	0.6	4.0'/5.0'			
3	0.9				@3'-5' grades to grayish brown (2.5Y 5/2) silty f-m SAND, some coarse sand & gr
4	1.2			SM	
5	1.5				5'-10' strong brown (7.5YR 5/6), clayey f-c SAND, saturated, some SA-SR gr alluvium,
		5'-10'			
6	1.8				
7	2.1	4.0'/5.0'		SC	
8	2.4				
9	2.7				
10	3.1				10'-26' well graded sandy GRAVEL saturated, gr up to 3" in Ø some fines
11	3.4	3.0'/5.0'		GW	
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'			
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-612

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	26'-25			SAA
				GW	
22	6.7	4.5/6.0			
23	7.0				
24	7.3				
25	7.6				26'-27' elastic SILT (MH) w/
26	7.9	~~25-27.5~~			brown (7.5YR 5/3), ~~fat CLAY~~ Rmc 4/4/11
27	8.2	2.5'/25	Residuum	MH	same SA-A gr-sized dolostone
			Bedrock	GW	Weathered Rome Formation
28	8.5				bluish gray GLEY 2 6/5PB
29	8.8				DOLOSTONE / Rome Formation
					Terminate Boring @ 27.5'
30	9.2				
31	9.5				
32	9.8				
33	~~10.1~~				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-613

Date Started: 4/6/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 4/6/11	**Driller:** Ernest Shiff	**Survey Unit:** 17	
Logged By: Rodney Clark	**Equipment:** Mini Sonic Track	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		0'-2.5' very dark brown (10YR 2/2), clayey fine SAND (SC), some few med-coarse sand & SA-SR gravel, moist, trace organics
1	0.3				
2	0.6		WT@2.5 ▽	SC	
3	0.9	4.5'/5.0			2.5'-5.0' light brownish gray (10YR 6/2) silty, fine SAND (SM), wet, some SA-SR gravel, ALLUVIUM
4	1.2			SM	
5	1.5				
6	1.8	5'-10'			5'-18' brownish yellow (10YR 6/6) clayey, f-c SAND, some SA-SR gravel, saturated ALLUVIUM, some gr up to 4" in ⊖
7	2.1	1.0'/5.0			
8	2.4			SC	
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5'/5.0			18'-20' strong brown (7.5YR 5/6), elastic SILT w/ sub-gr-sized shale fragments, some relict rock structure Residuum/Weathered Rome Fm.
18	5.5				
19	5.8		Residuum	MH	
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-614

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	CL	0'-5' very dark grayish brown (2.5Y 3/2), strongly lean CLAY (CL), moist, some SA-SR gr, up to 2" in ⊖, trace organics
2	0.6		▽		
3	0.9	4.0'/5.0'	WT @ 2.0' bgs		
4	1.2				
5	1.5				5'-10'
6	1.8	5'-10'			* light olive brown (2.5Y 5/3), clayey gravelly, f-c SAND (SC) saturated, some gr up to 4" in ⊖
7	2.1	4.0'/5.0'		SC	
8	2.4				
9	2.7				
10	3.1				10'-13.5' yellowish brown (10YR 4/4) wd graded clayey, sandy, GRAVEL, wet gr up to 3" in ⊖,
11	3.4	10'-15'		GW	
12	3.7				13.5'-20' light yellowish brown (2.5Y 6/3) elastic SILT (MH), wet, some relict rock structure Weathered Rome Formation
13	4.0	5.0'/5.0'			
14	4.3				
15	4.6				
16	4.9	15'-20'	Residuum	MH	MH
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project: 120-07-1235

BORING NO. B-615

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	0'-1.5' yellowish brown, silty, F-m SAND some SA-SR coarser sand & gravel up to 2" in Ø
2	0.6	4.0'/5.0'			1.5'-5.0'
3	0.9			SC	greenish gray (GLEY 1 5/5GY) Clayey F-C SAND, some SA-SR gravel, wet, ALLUVIUM
4	1.2				
5	1.5	5'-10'			SAA except saturated & strong brown (7.5YR 5/6)
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-21' strong brown (7.5YR 5/6), well graded GRAVEL (GW), saturated gr up to 4" in Ø
16	4.9			GW	
17	5.2	1.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B615

Date Started: 4/4/11 Drilling Contractor: Beart Longyear Page 2 of 2

Date Completed: 4/4/11 Driller: Jeremy Triepke Survey Unit: 17

Logged By: Rodney Clark Equipment: Minisonic track Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					21'-25'
21	6.4	20'-25'			reddish yellow (7.5YR 6/8) elastic
					SILT (MH) wet, w/ dry grised
22	6.7				shale fragments
		50/1	Residuum	MH	Weathered Rome Fm
23	7.0	5.0'			
24	7.3				
25	7.6				Terminate Boring @ 25.0'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-616

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3'
1	0.3		Alluvium	SC	grayish brown 10YR 5/2 clayey SAND (SC), moist, some SA-SR gr, gr up to 4" in Ø
2	0.6	4.5'/5.0'			3'-6'
3	0.9				olive (5Y 5/3), silty, f-c SAND (SM), moist some gr up to 3" in Ø,
4	1.2			SM	mostly fine to med. sand
5	1.5				
		5'-10'			6'-18' SAA except saturated
6	1.8				& strong brown (7.5YR 5/6)
7	2.1			SC	& clayey SAND (SC)
8	2.4	5.0'/5.0'			
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	5.0'/5.0'			
14	4.3				
15	4.6				
16	4.9	15'-20'			
17	5.2				
18	5.5	3.5'/5.0'			18'-23.5' brownish yellow (10YR 6/6), well graded GRAVEL
19	5.8			GW	gr is SA-SR alluvium, some f-c SAND
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-616

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mini Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	20'-23.5' DESCRIPTION
21	6.4	20'-25	Alluvium	GW	brownish yellow (10YR 6/6)
22	6.7	4.5'/5.0			cobble zone
23	7.0				
24	7.3		Residuum	GW	brownish yellow (10YR 6/6), ang well graded GRAVEL/SHALE/WEATHERED RONE FORMATION
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-617

Date Started: 4/4/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 4/4/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clarke **Equipment:** Mobile Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SL	0'-4' brown (10YR 5/4), clayey f-c SAND w/ some SA SR gr (SC), moist, ALLUVIUM gr up to 4" in Q
2	0.6	4/5			
3	0.9				
4	1.2				4'-15' SAA except saturated & light olive brown 2.5Y 5/3
5	1.5	5'-10'			
6	1.8				
7	2.1	5/5			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4/5			
13	4.0				
14	4.3				
15	4.6				~~Terminate Boring @ 15'~~ 4/4/11
16	4.9	15'-20'	Alluvium	SC	15'-17.5' SAA except brownish yellow (10YR 6/6)
17	5.2				
18	5.5	5.0/5.0	Residuum	ML	reddish brown (5YR 4/4), lean SILT w/ some shale fragments, moist, some relict rock structure
19	5.8				Residuum / Weathered Rome Fm.
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-618

Date Started: 4/6/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 4/6/11	**Driller:** Ernest Stuff	**Survey Unit:** 17			
Logged By: Rodney Clark	**Equipment:** Sonic Track	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0'-5' brown (10YR 5/3), clayey f-c SAND (SC) w/ some SA-SR gravel, moist gr. up to 4" in ⊖, ALLUVIUM
2	0.6	4.5'/5.0	▽		
3	0.9				
4	1.2				Water Table @ 2.5' bgs
5	1.5	5'-10'			5'-17.5' SAA except saturated & brownish yellow (10YR 6/6)
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20			
16	4.9				
17	5.2	5.0'/5.0			17.5'-19' strong brown (7.5YR 5/6) fat CLAY (CH) some SA-SR gravel trace shale ALLUVIUM
18	5.5			CH	19.0'-20.0' strong brown (7.5YR 5/6) fat CLAY w/ any gr-sized shale fragments/weathered bone
19	5.8				
20	6.1		Residuum	CH	Terminate Boring @ 20.0 Fm.

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-619

Date Started: 4/6/11 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 4/6/11 **Driller:** Ernest Schutt **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SM	0'-13' light olive brown (2.5Y 5/4), silty, f-c SAND (SM) w/some SA-SR gravel, wet, gr. up to 4" in ⊖, ALLUVIUM
1	0.3				
		2.5'/5.0'	WT@2.5' ▽		
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				13'-16' SAA except yellowish brown (10YR 5/6)
14	4.3				
15	4.6	15'-20'			
16	4.9				16'-20' reddish brown (5YR 4/3), sandy lean SILT (ML), dry, some ang. gr. sized shale residuum Weathered Rome Formation
17	5.2	5.0'/5.0'	Residuum	ML	
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-620

Date Started: 4/6/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 4/6/11 **Driller:** Ernest Schutt **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-4'
1	0.3		Alluvium	SC	brown (10YR 5/3), clayey f-c SAND,
					some SA-SR gravel, wet, ALLUVIUM
2	0.6				
		4.0'/5.0			
3	0.9				
4	1.2				@ 4'
					grades to yellowish brown (10YR 5/6)
5	1.5				
		5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				10'-25'
		10'-15'			yellowish brown (10YR 5/4) silty f-c SAND (SM) wet
11	3.4				some SA-SR gravel, ALLUVIUM
12	3.7	4.5'/5.0			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2				
		5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-620

Date Started: 4/6/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 4/6/11 **Driller:** Ernest Schutt **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** MiniSonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		~~20'-25~~			
21	6.4				
22	6.7	45/			
23	7.0	~~5.5~~			
24	7.3				Safety Incident occurs @ appx.
25	7.6				✓ 1400, while drilling ~~from 20'-2~~ KMC 4/6/11
26	7.9				from 25' to 30' while tripping
27	8.2				tooling in boring. Drill helpers
28	8.5				hand injured. Shut down
29	8.8				drilling operations / Boring
30	9.2				incomplete.
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-620

Date Started: 6/13/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/13/11 **Driller:** Jeremy Triephe **Survey Unit:** Pre-Fin 78 17

Logged By: Rodney Cl **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0.0'-5.0'			
1	0.3		Alluvium	SC	0.0 to 5.0'
		2.0' / 5.0			brownish yellow (10YR 6/6), clayey
2	0.6				f-c SAND w/ some SA-SR gravel
			▽		gr. up to 4" in a, moist, wet @
3	0.9		WT@2.5		2.5' bgs, alluvium
4	1.2				
5	1.5	5.0'-10.0'			
6	1.8				
7	2.1	3.5' / 5.0'			
8	2.4				
9	2.7				
10	3.1	10.0'-15.0'			
11	3.4				
12	3.7	5.0' / 5.0'			
13	4.0				
14	4.3				
15	4.6	15.0'-20.0'			light yellowish brown (10YR 6/4)
				SM/SW	silty, f-c SAND, well graded
16	4.9				w/ f, some SA-SR gravel
		5.0' / 5.0			brownish yellow, well graded GRAVEL
17	5.2			GW	(GW) w/ some f-c sand, trace
18	5.5				ang. shale fragment
19	5.8				yellowish brown (10YR 5/8) lean silt w/
			Residuum	ML	ang. shale gravel, weathered Rome Fm.
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-621

Date Started: 6/13/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/13/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' — 10.0'
1	0.3		Alluvium	SC	light yellowish brown (10YR 6/4), clayey f-c SAND w/ some SA-SR
2	0.6	3.0'/5.0'	▽ WT @ 2.0'		gravel, wet, gr. up to 4" in @ 2'
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-25'
11	3.4				Same as above except saturated & brownish yellow (10YR 6/6)
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-621

Date Started: 6/13/11 Drilling Contractor: Boart Longyear Page 2 of 2

Date Completed: 6/13/11 Driller: Jeremy Triepke Survey Unit: 17

Logged By: [illegible] Equipment: Minisonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium	SC	SAA
22	6.7	4.2'/5.0'			
23	7.0				
24	7.3				
25	7.6	25-30'			25'-26.5'
26	7.9			SM	brownish yellow, well graded, silty, fine-coarse SAND w/ some SA-SR gravel, wet, ALLUVIUM
27	8.2				
28	8.5	4.0'/5.0'		GW	26.5'- well graded GRAVEL (GW), wet, some f-c Sand, gr. up to 4" in ∅ and SA-SR, alluvium
29	8.8				
30	9.2	30'-33'			
31	9.5	3.0'/3.0'	Residuum	MH	reddish brown (2.5YR 4/4), elastic SILT (MH), moist to dry, some angular shale fragments, weathered Rome Formation
32	9.8				
33	10.1				Terminate @ 33'
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-622

Date Started: 6/13/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 6/13/11 **Driller:** Jeremy Treeple **Survey Unit:** 17
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0' → 14.0'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6), clayey f-c SAND w/ some SA-SR gravel gr up to 3" in Ø, moist, wet @ 2.5' bgs
2	0.6	2.0'/5.0'	WT @ 2.5' ▽		alluvium
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0/5.0			14.0'-15.0'
13	4.0				Weathered Rome Formation
14	4.3				yellowish brown (10YR 5/4), lean silt w/ some
			Residuum	ML	org. shale gravel, some relict rock structure
15	4.6				terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-623

Date Started:	4/5/11	**Drilling Contractor:**	Boart Longyear	**Page**	1 of 1
Date Completed:	4/5/11	**Driller:**	Jeremy Triepke	**Survey Unit:**	17
Logged By:	Rodney Clark	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		0'- brownish yellow (10YR 6/6) clayey, f-c SAND w/ some SA-SR gravel wet, some gr up to 4" in ø, ALLUVIUM
1	0.3				
2	0.6	4.5/5.0			
3	0.9				Water Table @ Surface
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5/5.0			
8	2.4				
9	2.7				lost core barrel from 10' to 15' bgs
10	3.1				- unable to recover - boring incomplete
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-624

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/9/11 **Driller:** Jeremy Trieple **Survey Unit:** 17

Logged By: Rebecca Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'	Q		0'-14' yellowish brown (10YR 5/6) clayey f-c
1	0.3		WTDS	SC	SAND (SC) w/ some SA-SR gravel
		1.0'/4.0'			wet gr. is up to 3" in Q Alluvium
2	0.6		Q		
3	0.9		Alluvium		
4	1.2				
		9.0-9.0'			
5	1.5				
6	1.8	5.0/5.0'			
7	2.1				
8	2.4				
9	2.7				
		9.0-14.0'			
10	3.1				
		4.1'/5.0'			
11	3.4				
12	3.7				
13	4.0				14'-33'
14	4.3				strong brown (7.5YR 5/6)
		14.0-19'		SW/SM	silty, well graded f-c SAND w/ some
15	4.6				SA-SR gravel, wet, gr up to 2" in Q
16	4.9				
		3.8'/5.0'			
17	5.2				
18	5.5				
19	5.8				
		19.0'-24.0			
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-624

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/9/11 **Driller:** Jeremy Trieplee **Survey Unit:** Rowe 6/9/11 FS 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:**

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	19-24	Alluvium	SW/SC	Same as above except some SR gravel up to 3" in Ø.
22	6.7	5.0'/5.0'			
23	7.0				
24	7.3	24-29			
25	7.6				
26	7.9	5.0'/5.0'			
27	8.2				
28	8.5				
29	8.8	29-34'			
30	9.2				
31	9.5	5.0'/5.0			
32	9.8				Terminate Sampling @ 33' bgs
33	10.1		Residuum	ML	brown (7.5YR 4/2) lean SILT (ML), dry some relict rock structure,
34	10.4				Weathered Rome FM.
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-625

Date Started: 4/1/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 4/1/11 **Driller:** Jeremy Trepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0-4'	Alluvium	SM	yellowish brown (10YR 5/8), silty f-c SAND wet, some SA-SR gravel, up to 1" in Ø, ALLUVIUM
2	0.6	1.5'/4.0'			
3	0.9				
4	1.2				4'-19'
5	1.5	4'-9'		SC	light yellowish brown (10YR 6/4), clayey gravelly f-c SAND, wet, gr is SA-SR & up to 4", ~Ø, ALLUVIUM
6	1.8	5.0'/5.0'			
7	2.1				
8	2.4				
9	2.7	9'-14'			SAA except saturated
10	3.1				
11	3.4	4.5'/5.0'			
12	3.7				
13	4.0				
14	4.3	14'-19'			
15	4.6				
16	4.9	5.0'/5.0'			
17	5.2				
18	5.5				19'-24'
19	5.8	19'-24'			pale brown (10YR 6/3), silty gravelly f-c SAND, wet, some SA-SR gravel, ALLUVIUM
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-625

Date Started: 4/1/11 **Drilling Contractor:** Beaft Longyear **Page** 2 **of** 2

Date Completed: 4/1/11 **Driller:** Jeremy Trieple **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		19'-24'			
21	6.4				
		5.0/5.0			
22	6.7				
23	7.0				24'-33' SAA except brownish yellow 10YR 6/6
24	7.3	24'-29'			
25	7.6				
26	7.9				
		4.5/5.0			
27	8.2				
28	8.5				
29	8.8				
		29'-34'			
30	9.2				
31	9.5				
		5.0/5.0			
32	9.8				
33	10.1				Color changes @ 33' light yellowish brown (10YR 6/4) sample interval to 33'
34	10.4				Terminate Boring @ 34'
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-626

Date Started: 6/7/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/7/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** MiniSonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5	Alluvium (SC)		stong brown (7.5YR 5/6), clayey f-c SAND w/ some SA-SR gr moist, gr up to 3" in c. Alluvium, well graded
2	0.6	3.0'/5.0'	WT @2.6' bgs	SC/SW	
3	0.9				
4	1.2				
5	1.5	5'-10			
6	1.8			SC/SW	brownish yellow (10YR 6/6), clayey f-c SAND w/ some SA-SR gravel, wet, well-graded, gr up to 4" in c
7	2.1	4.5'/5.0			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-14.5' SAA except brown (7.5YR 5/4)
11	3.4				
12	3.7	5.0'/5.0			
13	4.0				(Weathered Cobble) 14.5'-15.0 light yellowish brown silty f-m SAND wet, some structure
14	4.3				
15	4.6	15'-20'		SM/SC	15'-25' SAA except saturated and yellowish brown (10YR 5/6)
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-626

Date Started: 6/7/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/7/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mini sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4		Alluvium		
22	6.7	4.8'/5.0'			
23	7.0			SC	
24	7.3				25'-32'
25	7.6				strong brown (7.5YR 5/6)
		25'-30'			well graded, sandy GRAVEL, wet,
26	7.9			GW	gr is up to 4" in Ø and SR to
27	8.2	4.5'/5.0'			WR, alluvium
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8	5.0'/5.0'			32'-35' strong brown (7.5YR 5/6) well graded, gravelly, f-c
					silty SAND, wet, gr is SR-WR
33	10.1			SM/SW	Terminate sampling @ 33'
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-627

Date Started: 6/14/11 Drilling Contractor: Boart Longyear Page 1 of 2

Date Completed: 6/14/11 Driller: Jeremy Triple Survey Unit: 17

Logged By: Rodney Clark Equipment: Mini sonic Elevation: TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0-3.5' yellowish brown (10YR 5/6), clayey f-c SAND w/ some SA-SR gravel gr up to 4" in 2, moist, metal frags 2' bgs, alluvium
2	0.6	3.0'/5.0'			
3	0.9		▽ WT @ 2.5'		
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	1.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-627

Date Started: 6/13/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/13/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				
22	6.7				
		4.0'/5.0'			
23	7.0				
24	7.3				
25	7.6				
		25'-30'			
26	7.9				
27	8.2				
		4.3'/5.0'			
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8				
		3.5'/5.0'			
33	10.1				
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B628

Date Started: 4/1/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 4/1/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mini Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC (SC)	0'-2.0' brown (7.5YR 5/4) clayey f-c SAND, moist, slightly consolidated, some SA-SR gr, gr up to 2" in ⊖
1	0.3				
	A				
2	0.6	4.2'/5.0'	▽ WT @ 2.0'		2.0-5.0
3	0.9				
4	1.2			SC	olive (5Y 5/3), clayey f-c SAND (SC) wet-saturated, some SA-SR gravel gr up to 6" in ⊖
	B				
5	1.5	5'-10'			5.0' – grades to yellowish brown (10YR 5/6)
6	1.8				
7	2.1	4.5'/5.0			very hard drilling from 7'-9'
8	2.4			GW	← Cobble zone gr up to 4" in ⊖
	C				
9	2.7				
10	3.1				
	D	10'-14'			
11	3.4			SC	
12	3.7	4.0'/4.0'			
13	4.0				← Cobble Zone 13'-14'
				GW	
14	4.3	14-15'			
	E				
15	4.6	15'-20			15.0 → 20.0 / : yellowish red (5YR 5/6), sandy well-graded GRAVEL (GW), wet gr is up to 4" in ⊖ & SA-SR
16	4.9				
17	5.2	5.0'/5.0'			
	F				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-628

Date Started: 4/1/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 4/1/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'	Alluvium		yellowish brown (10YR 5/6), gravelly, well graded
21	6.4			SM/SW	f-c SAND (SM), wet, gr 15 SA-SR
22	6.7	5.0'/5.0			≠ up to 2" in ⊖
23	7.0				
24	7.3				
25	7.6	25'-30'			
26	7.9				
27	8.2	5.0'/5.0'			
28	8.5				↳ Cobble Zone @ 28'-30'
29	8.8				
30	9.2	30'-35'			SAA except mostly fine-medium sand
31	9.5				
32	9.8	5.0'			
33	10.1				
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-629

Date Started: 3/30/11 **Drilling Contractor:** Beart Longyear **Page** 1 **of** 1

Date Completed: 3/30/11 **Driller:** Jeremy Triephe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvium	SC	light yellowish brown (2.5Y 6/3), clayey f-c SAND, w/some SA-SR gravel, wet, some gr up to 4" ø.
2	0.6		▽		
		3.5'/5.0'			
3	0.9		WL@2'		
4	1.2				
5	1.5				light olive brown (2.5Y 5/4)
		5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4	3.0'			
12	3.7	Rec 3/30/11 5.0'			strong brown (7.5YR 5/8), lean SILT (ML) w/some angular gr-sized SHALE fragments, wet, weathered
13	4.0		Appx 13'		Rone Formation/Residuum
					Collect E sample from Residuum
14	4.3		Residuum	ML	
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-630

Date Started: 3/31/11 **Drilling Contractor:** Bart Longyear **Page** 1 **of** 1

Date Completed: 3/31/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Robert Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5'
1	0.3		Alluvium	SC	light yellowish brown (2.5Y 6/3), clayey f-c SAND, w/ some SA-SR gravel, wet. ALLUVIUM, gr up to 4" in D
2	0.6	2.0'/5.0'			
3	0.9				
4	1.2				
5	1.5				5'-15.5'
		5'-10'			SAA grades to brownish yellow (10YR 6/6) & saturated
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				15.5'-17.5'
		15'-20'			Brownish yellow (10YR 6/6), sandy fat CLAY (CH), moist, some arg. gr-sized shale fragments/ Residuum/Weathered Rock Fm
16	4.9				
17	5.2	5.0'/5.0'	Residuum		17.5'-20.0
18	5.5				brown (7.5YR 4/4) sandy fat CLAY (CH), moist, dry, some arg. gr-sized shale fragment some relict rock structure
19	5.8				
20	6.1				Terminate Boring @ 20.0

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-631

Date Started: 3/31/11 **Drilling Contractor:** Bart Longpear **Page** 1 **of** 2

Date Completed: 3/31/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		0'-3.5' yellowish brown (10YR 5/4) sandy, fat CLAY (CH) some SA-SR gr up to 4" in ⊖, moist
1	0.3				
2	0.6	3.0/5.0		CH	
3	0.9				3.5' to grades to light yellowish brown (10YR 6/4) clayey, gravelly f-c SAND (SC), wet, gr up to 4" in ⊖
4	1.2				
5	1.5			SC	
		5'-10'			
6	1.8				
7	2.1	4.5/5.0			
8	2.4				
9	2.7				
10	3.1				light yellowish brown (10YR 6/4)
		10'-15'			11-13 sandy, lean CLAY, CL saturated few SA-SR gr. up to 1" in ⊖
11	3.4				
12	3.7	5.0/5.0		CL	
13	4.0				strong brown (7.5YR 5/6)
14	4.3			SC	clayey, f-c SAND (SC) w/some SA-SR gravel, wet, gr up to 2-3" in ⊖
15	4.6				
		15'-20'			
16	4.9				
17	5.2	4.5/5.0			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-631

Date Started: 3/31/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 3/31/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium	SA	Same as above
22	6.7	5'/5'			
23	7.0				
24	7.3				
25	7.6				
26	7.9	25'-30'			
27	8.2	4'/5'			
28	8.5				
29	8.8				
30	9.2				
31	9.5	30'-35'			clayey, sandy, well graded GRAVEL, GW, wet, gr 15 SA SL ~ up to 4" in ⌀
32	9.8				
33	10.1	5.0'/5.0'			← Terminate sampling
34	10.4				
35	10.7				boring @ ← Terminate 35
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-632

Date Started: 3/30/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** _____

Date Completed: 3/30/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	brownish yellow (10YR 6/6), silty, gravelly, fc SAND (SM), wet, some sa-sr gravel, gr
2	0.6	4.0/5.0	▽ WL@2'		up to 3" in ⌀, ALLUVIUM
3	0.9				
4	1.2				
5	1.5				yellowish brown (10YR 5/4), clayey, gravelly
6	1.8	5'-10		SC	fc SAND (SC), wet, some SA SR gravel. ALLUVIUM; CH (fat CLAY w/gravel) @ 6.7'-7.0'
7	2.1	5.0/			brown (7.5YR 5/4), WEATHERED SHALE
8	2.4	5.0	Residuum	ML	sampled as lean SILT (ML), dry
9	2.7		Bedrock		some ang. gr.-sized shale fragments WEATHERED ROME FM./RESIDUUM
10	3.1				Terminated Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B633

Date Started: 3/30/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 3/30/11 **Driller:** Jeremy Trieplne **Survey Unit:** 17
Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	light olive brown (2.5Y 5/6), clayey f-c SAND w/ some SA-SR gravel gr up to 4" in Ø, wet saturated
2	0.6				
3	0.9				poor recovery Run-1/utilize as Sample A
4	1.2	1.0'/5.0'			
5	1.5	5'-10'			5'-11' silty, gravelly f-c SAND (SM) some SA-SR, gr up to 4" in Ø wet ALLUVIUM
6	1.8				
7	2.1				
8	2.4	5.0'/5.0'			
9	2.7				
10	3.1	10'-15'			10.5'-11.0' comingled alluvium/residuum
11	3.4				dark yellowish brown (10YR 4/4), lean SILT w/some ang gr-sized shale fragments, some relict
12	3.7			Me	rock structure / RESIDUUM
13	4.0	5.0'/5.0'	Residuum		WEATHERED ROME FORMATION
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
	5.2				
	5.5				
	5.8				
	.1				

n Interval; Recovery (%) = Run Interval / Amount Recovered
eposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-634

Date Started: 3/30/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/30/11 **Driller:** Jeremy Triephe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	olive gray (5Y 5/2), clayey, gravelly f-c SAND (SC), wet, gr is SR-SA, some gr up to 3" in ⌀, ALLUVIUM
2	0.6	2.5'/5.0'	WL@2'		
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			grades to light olive brown (2.5Y 5/4) @ 6.5' bgs & saturated
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'	Residuum	MH	brownish yellow (10YR 6/6), elastic SILT, (MH) w/ some ang. gravel shale fragments, wet, RESIDUUM WEATHERED ROME FORMATION
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-635

Date Started: 3/25/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 3/25/11	**Driller:** Jeremiye Triephe	**Survey Unit:** 17			
Logged By: Rodney Clark	**Equipment:** Minisonic Track	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5'
1	0.3		Alluvium		olive (5Y 5/3), clayey, gravelly, f-c SAND (SC), some SA-SR gr up to 3" in Ø
2	0.6	2.5'/5.0'	▽		moist - wet, ALLUVIUM
3	0.9				WL @ 2.0' bgs
4	1.2				
5	1.5	5'-7'			SAA grades to olive (5Y 4/4)
6	1.8	2.0'/2.0'			
7	2.1	7'-10'			
8	2.4				
9	2.7	3.0'/3.0'			
10	3.1				
11	3.4	10'-15'			
					11.5'-14.0'
12	3.7	5.0'/5.0'			- olive (5Y 5/6) Sandy, lean CLAY, w/ some angular gr-sized shale
13	4.0		Residuum	CL	wet, RESIDUUM/WEATHERED ROMEAM
14	4.3				14.0'-15.0' brownish yellow (10YR 6/6) elastic
				MH	SILT (MH) w/ some ang. gr shale RESIDUUM
15	4.6				Terminate Boring @ 15.0
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-636

Date Started: 6/8/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/8/11 **Driller:** Jeremy Trieghe **Survey Unit:** 17 18 Rev 6/9/11

Logged By: Rodney Clark **Equipment:** Mirisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvium	SC	light olive brown (2.5Y 5/4), clayey f-c SAND w/ some SA-SR gravel, most wet @ 3', Alluvium
2	0.6	2.5'/5.0	∇		
3	0.9		WT @ 2.8bgs		
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				brownish yellow (10YR 6/6), silty f-c SAND w/ some SA-SR gr, wet
9	2.7			SM	
10	3.1				
11	3.4	5.0'/5.0'			
12	3.7				
13	4.0				13.5'-14.5' brownish yellow (10YR 6/6), elastic SILT (MH), moist, trace angular shale gravel, some relict rock structure, weathered Rome Formation
14	4.3		Rockbar	MH	
15	4.6				
16	4.9				14.5'-15.0' SAA except olive (5Y 5/4)
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-637

Date Started: 3/30/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1
Date Completed: 3/30/11	**Driller:** Jeremy Triepke	**Survey Unit:** 17
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		olive gray (5Y 5/2), clayey, gravelly
1	0.3			SC	fc SAND, (SC), gr is SA-SR
2	0.6	3.0'/5.0'	▽		up to 4" in ⌀, wet to saturated
3	0.9		WL@2'		
4	1.2				← cobble @ 4.2'-4.7' (0.5' in ⌀)
5	1.5	5'-10'			
6	1.8				6.5'-11.0' olive (5Y 5/3), silty
7	2.1	4.5'/5.0'		SM	fc SAND w/some SA-SR gravel, wet, gr is up to 3" in ⌀
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				yellowish brown (10YR 5/8), elastic
12	3.7	5.0'/5.0'			SILT (MH) w/some ang. gr. sized
13	4.0		Residuum		shale fragments, some relict
14	4.3				rock structure, Weathered
15	4.6				Rome Formation
					Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B638

Date Started: 3/31/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/31/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'			0'-4'
1	0.3		Alluvium	SM	olive yellow (5Y 6/6), silty, SAND (SM) w/ some SA-SR gr, moist-wet, grup to 2" in ⊖, ALLUVIUM
2	0.6	3.0'/4.0'			
3	0.9				
4	1.2				4'-8.5'
5	1.5				light olive brown (2.5Y 5/4), clayey gravelly f-c SAND (SC) wet, gr is SA-SR, wet, alluvium
6	1.8				
7	2.1				8.5'-9'
8	2.4				light brownish gray (2.5Y 6/2) elastic SILT (MH), moist, some
9	2.7		Residuum	MH	angular gr-sized Shale fragment (Residuum / Weathered Rome Fm.
10	3.1				
11	3.4				Terminate Boring @ 9.0'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-639

Date Started: 3/25/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/25/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mikod **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			olive (5Y 5/3), clayey, f-c SAND,
1	0.3		Alluvium	SC	moist, some SA-SR gravel, gr up to 3"
2	0.6		▽		in θ, ALLUVIUM
		3.5/5.0'			
3	0.9				WL @ 2.0' bgs
4	1.2				
5	1.5				
		5'-10			SAA except olive (5Y 4/3) & wet
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				pale olive (5Y 6/4) sandy, lean CLAY (CL)
					some Ang. to SR gravel, moist,
9	2.7			CL	
10	3.1				
		10'-15'			
11	3.4				
12	3.7	4.0/5.0	Residuum	CH	pale olive (5Y 6/4), sandy fat CLAY (CH), moist, some ang.
13	4.0				gravel-sized Shale fragment
					Weathered Rome Fm./Residuum
14	4.3		Bedrock	SW	← Shale/Rome formation
					friable, severely weathered, fissle
15	4.6				laminated, etc.
					Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-640

Date Started:	3/25/11	**Drilling Contractor:**	Bart Longyear	**Page**	1 of
Date Completed:	3/25/11	**Driller:**	Jeremy Triephe	**Survey Unit:**	17
Logged By:	Rodney Clar	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3'
1	0.3		Alluvium	SC	olive gray (5Y 4/2), clayey, f-c SAND w/ some SA-SR gravel, wet, gr up to 4" in ALLUVIUM
2	0.6	4.3'/5.0'	▽		
3	0.9				3'- SAA except light olive brown (2.5Y 5/6)
4	1.2				
5	1.5				WL @ 2' bgs
6	1.8	5'-10'			
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7			MH	olive yellow (2.5Y 6/6), elastic SILT w/ some SR-Ang gravel, some alluvium (quartz/quartzite) + some ang. shale frags ALLUVIUM
10	3.1	10'-15'			
11	3.4				
12	3.7	5.0'/5.0'	Residuum	ML	olive (2.5Y 6/6) clean SILT (ML) w/ some ang. gr-sized shale, some relict rock structure, moist WEATHERED ROME FORMATION
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-611

Date Started:	3/24/11	**Drilling Contractor:**	Boart Longyear	**Page**	1 of 1
Date Completed:	3/24/11	**Driller:**	Jeremy Triepke	**Survey Unit:**	17
Logged By:	Rodney Clark	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3'
1	0.3		Alluvium	CH	brownish yellow (10YR 6/6), sandy fat CLAY (CH), some SA-SR gravel, up to
2	0.6	4.5'	▽		4" in Ø, laminated
3	0.9				3'-5'
4	1.2			SC	olive (5Y 5/3), clayey f-c SAND w/some SA-SR gravel,
5	1.5				wet, gr up to 2" in Ø, mottly
6	1.8	5'-10'		CL	f-m Sand
7	2.1	5.0'			5'-7.5' gray (5Y 4/1), sandy lean
8	2.4	5.0'			CLAY, some SR-Ang Gravel, some
9	2.7		Residuum	CH	(Quartzite, gneiss & shale) saturated
					7.5'-10' brownish yellow (10YR 6/6) fat
10	3.1				CLAY (CH) w/some arg gr. Shale/Residuum
					Terminate Boring @ 10.0
11	3.4				Weathered
12	3.7				Rome Formation
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-642

Date Started:	3/30/11	**Drilling Contractor:**	Boart Longyear	**Page**	1 of 1
Date Completed:	3/30/11	**Driller:**	Jeremy Triepke	**Survey Unit:**	17
Logged By:	Rodney Clark	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					0'-1.5'
		0'-5'			yellowish brown (10YR 5/6), gravelly, sandy
1	0.3		Alluvium	CH	fat CLAY (CH) moist, gr is SA-SR up to 2 in
2	0.6	4.2'/5.0'			1.5' - 5.0' olive (5Y 4/3), clayey f-c
				SC	SAND w/some SA-SR gr, gr up to 4"
3	0.9				in ⊖, wet, ALLUVIUM
4	1.2				
5	1.5				5'-10.5' SAA except saturated
		5'-10			
6	1.8				
7	2.1				
		2.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4				10.5'-15.0' greenish gray (GLEY1 6/10Y) gravelly, elastic SILT (MH), wet
12	3.7		Residuum	MH	gr is angular slate fragments, little relict rock structure
13	4.0				RESIDUUM/WEATHERED ROME FORMATION
14	4.3				
15	4.6				Terminate @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B643

Date Started: 4/1/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 4/1/11 **Driller:** Jeremy Trisphe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mini Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'			0'-3' dark gray (10YR 4/1), sandy lean
1	0.3		Alluvium	CL	CLAY (CL), saturated, some fine gravel
2	0.6	3.0/4.0'			gravel up to 4" in Ø, some organics
3	0.9				SAM except 3'-4.5'
4	1.2			CL	light yellowish brown
5	1.5				light gray (2.5Y 7/2), elastic SILT (MH)
6	1.8		Residuum	MH	w/ some angular-sized shale/Residuum/some distorted structure/Weathered Rome Fm.
7	2.1				
8	2.4				
9	2.7				Terminate Boring @ 9'
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-614

Date Started: 3/31/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/31/11 **Driller:** Jeremy Triephe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0'-8'
1	0.3				grayish brown (2.5Y 5/2), clayey, gravelly
2	0.6	2.5'/5.0'			f-c SAND, wet, gr is SR-WR & up to 3" in ⊖
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				8'-10 olive (5Y 5/3), elastic SILT w/gravel (MH)
9	2.7		Residuum	MH	wet, gr is angular shale fragments Residuum/Weathered Rome Formation
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-645

Date Started: 3/31/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1
Date Completed: 3/31/11	**Driller:** Jeremy Triepke	**Survey Unit:** 17
Logged By: Rodney Clark	**Equipment:** Minisonic Track	**Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 4.5'/5.0	Alluvium	SM	0'-2.5' light brownish gray (2.5Y 6/2), clayey gr f-c SAND (SM), moist gr is SA-SR
2	0.6				2.5'-5.0' yellowish brown (10YR 5/4) elastic SILT (MH), some SA-Ang, disturbed, moist, sandy
3	0.9			MH	
4	1.2				
5	1.5				5.0'-13.5' olive gray (5Y 5/2) silty SC gravelly f-c SAND (SM), wet, gr is SA-SR & up to 3" in Ø
6	1.8	5'-16'			
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				
13	4.0	5.0'/5.0'			13.5'-15.0' brownish yellow (10Y 6/6), elastic SILT (MH), wet, some ang gr-sized shale fragments, Residuum, Weathered Rome Formation
14	4.3		Residuum	MH	
15	4.6				
16	4.9				
17	5.2				Terminate Boring @ 15.0'
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B646

Date Started: 3/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/24/11 **Driller:** Jeremy Triebe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0'-11.5' olive (5Y 5/4), clayey, SAND (SC) w/some SA-SR gravel, wet, sand is f-c, gr is up to 4" in Ø
1	0.3				
2	0.6	3.5'/5.0'	▽		WL @ 2' bgs
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			11.5 - brownish yellow (10YR6/8) wet, fat CLAY (CH) w/some org gravel / slate, RESIDUUM WEATHERED ROME FORMATION
12	3.7	5.0'/5.0'	Residuum	CH	
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B647

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** ~~Geoprobe~~ Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0-4'			
1	0.3		WTO	SC	olive (5Y 5/3), clayey f-c SAND, w/some SA-SR gravel, wet
			Surface		gr is SA-SR & up to 3" in D
2	0.6		Alluvium		
3	0.9				
4	1.2				4'-9'
		4'-9'			
5	1.5			MH	olive yellow (2.5Y 6/6) elastic SILT (MH), some angr gravel sized shale
6	1.8		Residuum		fragments, some chert rock structure
7	2.1				Weathered Rome Fm.
8	2.4				
9	2.7				Terminate Boring @ 9'
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-648

Date Started: 3/25/11 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 3/25/11 **Driller:** Jeremy Triephe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'			
1	0.3		Alluvium		olive gray (5Y 4/2), clayey, gravelly,
		3.0'/4.0		SC	f-c SAND w/some SA-SR gravel,
2	0.6				wet-saturated, ALLUVIUM
3	0.9				WL @ 1.5' bgs
4	1.2				
		4'-9'			
5	1.5				SAA, but olive yellow (2.5Y 6/6)
		Rec 3/25/11			
6	1.8	5.0'/5.0'		SC	
7	2.1				
8	2.4				8'-11' olive gray (5Y 4/2), sandy
9	2.7				lean CLAY w/some angular to
		9'-14'		CH	subrounded gravel, some shale &
10	3.1				some alluvium, saturated
11	3.4	3.5'/5.0'			11'-14' brownish yellow (10YR 6/8)
12	3.7				elastic SILT w/some angular gravel
			Residuum	MH	sized shale fragments, moist-wet,
13	4.0				some relict rock structure
					RESIDUUM/WEATHERED ROME FM.
14	4.3				Terminate Boring @ 14'
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-649

Date Started: 3/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/24/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	light yellowish brown (2.5Y 6/3), clayey f-c SAND (SC) with some SA-SR gravel wet, gr. up to 4" in Ø
2	0.6				
3	0.9	2.0/5.0'			WL @ 1.5' bgs
4	1.2				
5	1.5	5'-10'			SAA except pale olive (5Y 6/3)
6	1.8				
7	2.1	1.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'		CL	10'-11' brownish yellow (10YR 6/8) sandy lean CLAY w/ SR-Ang grav some shale, some alluvium, saturated
11	3.4				11'-15'
12	3.7	5.0'/5.0'	Residuum	CH	greenish gray (GLEY1 5/5GY) sandy fat CLAY (CH) w/some angular gravel sized shale some relict rock structure RESIDUUM/WEATHERED ROME FORMATION
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-650

Date Started: 3/25/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/25/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'			0'-5'
1	0.3		Alluvium	SC	olive gray (5Y 4/2), clayey f-c SAND (SC), moist-wet, some SA-SR gravel, gr up to 2" in ⊖, ALLUVIUM
		3.8/4.0'	▽		
2	0.6		WL at 5' bgs		
3	0.9				
4	1.2	Rec 3/25/11			
		4'-9'			
5	1.5				5'-9' light greenish gray (GLEY 1 6/10Y)
6	1.8	4.5/5.0		SM	silty f-c SAND (SM) some SA-SR gravel wet, gr up to 4" in ⊖, ALLUVIUM
7	2.1				
8	2.4				
9	2.7				utilized flapper bit to obtain saturated soil sample 9'-16' light greenish gray (GLEY 1 6/10Y)
10	3.1	9'-14'		SC	clayey f-c SAND, w/some SA-SR gravel, up to 2" in ⊖, saturated
11	3.4	4.5/5.0'			
12	3.7				
13	4.0				
14	4.3				
		14'-17'			16'-17'
15	4.6				pale olive (5Y 6/3), elastic SILT, w/some larg gr-sized shale fragments, moist, some relict rock structure (RESIDUUM/WEATHERED ROME FORMATION)
16	4.9		Residuum	MH	
17	5.2				Terminate Boring @ 17'
18	5.5				Very Hard drilling/short run due to drill bit (flapper bit) utilized
19	5.8				
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-651

Date Started:	3/24/11	**Drilling Contractor:**	Bart Longyear	**Page**	1 of
Date Completed:	3/24/11	**Driller:**	Jeremy Triephe	**Survey Unit:**	17
Logged By:	Rodney Clark	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium		0'-5' olive brown (2.5Y 5/3), silty f.c. SAND, (SM), moist, some SA-SR gravel, ALLUVIUM
2	0.6	3.0'/5.0'			some gravel up to 4" in ø
3	0.9				WL @ 1.5' bgs after approx 12 hours
4	1.2				
5	1.5	5'-10'			5'-7.5 light olive brown (2.5Y 5/4), clayey f.c. SAND w/ some SA-SR gravel saturated, little ang gravel shale, ALLUVIUM
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				7.5'-10.0 brownish yellow (10YR 6/8), fat CLAY (CH), some angular gravel/SHALE, saturated WEATHERED ROME FORMATION/RESIDUUM
9	2.7				
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-652

Date Started: 3/24/11	**Drilling Contractor:** Boart Longyear	**Page** 1 **of** 1	
Date Completed: 3/24/11	**Driller:** Jeremy Triephe	**Survey Unit:** 17	
Logged By: Rodney Clark	**Equipment:** Minisonic Track	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3.5' well graded GRAVEL (GW) light olive brown (2.5Y 5/4) moist, gravel is SA-SR, some f-c SAND gr is up to 4" in Ø
1	0.3		Alluvium	GW	
2	0.6	2.0'/5.0'	▽		W.L. = 2.0' bgs
3	0.9				3.5'-5.0' light olive brown (2.5Y 5/4), clayey f-c SAND (SC) w/ some SA-SR gravel, wet, some gr up to
4	1.2			SC	
5	1.5	5'-10'			5.0'-7.5' SAA except light gray (2.5Y 7/2)
6	1.8				
7	2.1	5.0'/5.0'			light gray (2.5Y 7/2), lean CLAY w/ some org gravel/shale fragments
8	2.4		Residuum	CL	
9	2.7				Weathered Rome Formation/saturated
10	3.1		Bedrock	GW	Terminate Boring @ 10.0'
11	3.4				Hard drilling @ 9.5'/obtained large (appx 0.5' in Ø) shale fragment
12	3.7				from bit
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B653

Date Started: 3/24/11 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 3/24/11 **Driller:** JEREMY TRIEPKE **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	0'-5' - olive (5Y 5/3), silty f-c SAND (SM), w/some SA-SR gravel, moist, primarily quartz sand. ALLUVIUM
2	0.6	1.0'/5.0'	▽		WL @ 2' bgs after appx 3 hours
3	0.9				
4	1.2				
5	1.5	5'-10'			5'-6' dark greenish gray (GLEY 1 4/5G) silty fine SAND, moist, ALLUVIUM
6	1.8				6' - appx 12' bgs olive (5Y 5/3), clayey f-c SAND (SC) w/some SA-SR gravel, gr up to 3" in ⌀, wet/saturated ALLUVIUM
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'	estimated poor rec.		
11	3.4				Appx. 12' bgs to -15'
12	3.7	1.5'/5.0'			brownish yellow (10YR 6/8), elastic SILT w/some ang. gravel/SHALE FRAGMENTS, saturated WEATHERED ROME FORMATION
13	4.0		Residuum	MH	
14	4.3				
15	4.6				Terminate Boring @ 15.0' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-654

Date Started: 3/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/24/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-4.5'
1	0.3		Alluvium	SM	light brownish gray silty f-c SAND, w/some SA-SR gravel, moist,
2	0.6	3.5'/5.0'	▽		some gravel up to 3" in ⌀ mostly quartz sand. ALLUVIUM
3	0.9				WL @ 2.0' bgs after appx 4 hours
4	1.2				4.5'-13.5'
5	1.5				light yellowish brown (2.5Y 6/4), clayey
6	1.8	5'-10'		SC	fc SAND w/some SA-SR gravel, saturated gravel up to 4" in ⌀, ALLUVIUM
7	2.1				
8	2.4	4.5/5.0'			
9	2.7				
10	3.1				
		10-15'			
11	3.4				
12	3.7	5.0'/5.0			
13	4.0				brownish yellow (10YR 6/8), elastic SILT, w/some angular gravel, SHALE, moist
14	4.3		Residuum	MH	weathered Rome Fm ← include Residuum in Sample E
15	4.6				Terminate Boring @ 15.0
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-655

Date Started: 3/24/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 17

Date Completed: 3/24/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'			olive (5Y 4/3), clayey SAND (SC) w/ some SA-SR
1	0.3		Alluvium	SC	gravel, moist-wet, sand is f-c, ALLUVIUM
					gravel up to 2" in Ø
2	0.6	2.2'/4.0'			
3	0.9				
					4'-8'
4	1.2				SAA except brownish yellow 10YR 6/8 &
		4'-9			saturated
5	1.5				
6	1.8	4.8'/5.0'			
7	2.1				
8	2.4				8'-9' brownish yellow (10YR 6/8), elastic
			Residuum	MH	SILT (MH), w/ some ang. gravel
9	2.7				SHALE/SILTSTONE, saturated, WEATHERED
					ROME FORMATION
10	3.1				Terminate Boring @ 9.0
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-656

Date Started: 3/23/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/23/11 **Driller:** Jeremy Triephe **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'		SC	0'-5' yellowish brown (10YR 5/4), clayey SAND (SC) w/ some SA-SR gravel, moist,
1	0.3		Alluvium		ALLUVIUM, poor recovery
2	0.6	1.0'/5.0'		▽	utilize 0'-5' sample as A interval
3	0.9				gr up to 3" in ⊖, sand f-c
4	1.2				24 HR WL = 2.0' bgs
5	1.5				5-9'
		5'-10'			brownish yellow (10YR 6/8), clayey
6	1.8				SAND w/ some gravel, sand is f-c
7	2.1	4.5'/5.0'			gr is SA-SR & mostly ½" in ⊖ but up to 1" in ⊖, wet
8	2.4				9'-10' brownish yellow (10YR 6/8), elastic
9	2.7				SILT w/ some Ang. gr. Shale fragments, some relict rock structure
			Residuum		wet, RESIDUUM/WEATHERED ROME FM.
10	3.1				Terminate Boring @ 10.0'
11	3.4				Collected 3 intervals A, B, & C
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-657

Date Started: 3/22/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 3/22/11	**Driller:** Jeremy Triepke	**Survey Unit:** 17			
Logged By: Rodney Clark	**Equipment:** Minisonic Track	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 3.5/5.0'	Alluvium	SC	olive gray 5Y 5/2 grades to light yellowish brown (2.5Y 6/4), clayey SAND (SC) w/ some SA-SR gravel, ALLUVIUM, moist, gr. is up to 4" in Ø, sand is f-c
2	0.6		▽		
3	0.9				
4	1.2				24 hr WL = 2.5' bgs
5	1.5	5'-10'			5'-15' SAA olive yellow 2.5Y 6/8 @ saturation
6	1.8	1.5'/5.0'			
7	2.1				
8	2.4				
9	2.7				
10	3.1	10-15'			
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15-20'	Residuum	ML	yellowish brown (10YR 5/8), elastic SILT(ML) little-some ang. gr. SHALE
16	4.9		Weathered Rome Formation		Weathered Rome Formation RESIDUUM
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-658

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/9/11 **Driller:** Jeremy Trieplie **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-4'	WT		0'-4' dark greenish gray (GLEY2 4/10BG)
1	0.3		Alluvium	SM	silty fine to med SAND, some
2	0.6	2.0'/5.0'			coarse sand, gr is SR, some mica
3	0.9				4'-9'
4	1.2				brownish yellow (10YR 6/6), elastic SILT
		4'-9'			(MH), moist, some ang gr sized
5	1.5			MH	shale fragments (weathered
6	1.8	5.0'/5.0'	Residuum		Rome Formation
7	2.1				
8	2.4				
9	2.7				Terminate Boring @ 9.0'
10	3.1				
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-659

Date Started:	3/23/11	**Drilling Contractor:**	BOART LONGYEAR	**Page** 1	**of** 1
Date Completed:	3/23/11	**Driller:**	Jeremy Tricopke	**Survey Unit:**	17
Logged By:	Rodney Clark	**Equipment:**	Minisonic Track	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium 2.0' ▽ bgs	SM	0'-3.5' olive gray (5Y 5/2), silty f-c SAND (SM) w/ some SA-SR gravel, moist, ALLUVIUM gravel up to 4" in ⊖
2	0.6	4.5'/5.0'			
3	0.9				3.5'-6.0 dark olive gray, clayey fine SAND, w/ some m-c sand & SA-SR gravel little organics, mostly roots
4	1.2			SC	
5	1.5	5.4/10'			
6	1.8				6.0'-7.5' light olive brown (2.5Y 5/3) silty SAND, f-c SAND (SM) w/ some SA-SR gravel up to 3" in ⊖
7	2.1			SM	
8	2.4		Residuum Weathered Rome Formation	ML	7.5'-10.0' greenish gray (GLEY1 6/10Y) elastic SILT w/ gravel, wet, gravel is angular slate fragments, WEATHERED
9	2.7				
10	3.1				Terminated Boring @ 10.0 ROME FORMATION
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO.: B-660

Date Started: 3/25/11 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 3/25/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Mini Sonic Truck **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-2.3' light olive brown (2.5Y 5/4) silty, f-c
1	0.3		Alluvium	SM	SAND (SM), moist, some SA-SR gravel
2	0.6	4.8/5.0	WL@1.5' bgs		gr. up to 2" in ⊖
3	0.9				2.3'-5.5'
				CH	dark greenish gray (GLEY 1 4/10Y)
4	1.2				sandy fat CLAY (CH), some SA-SR
					gravel up
5	1.5				
		5'-10'			
6	1.8			SC	5.5'-11.0' olive (5Y 4/3), clayey f-c
7	2.1	2.2/5.0			SAND, some SA-SR gr up to 4"
8	2.4				in ⊖, wet to saturated, ALLUVIUM
9	2.7				
10	3.1				approximately 10'
		10'-15'			11.0' - yellow (10YR 7/8), elastic SILT
11	3.4				w/some arg gr-sized shale
12	3.7				fragments, saturated wet, some
		3.0/5.0	Residuum	M+H	relict rock structure
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-661

Date Started: 3/23/11	**Drilling Contractor:** BOART LONGYEAR	**Page** 1 **of** 1	
Date Completed: 3/23/11	**Driller:** JEREMY TRIEPKE	**Survey Unit:** 17	
Logged By: RODNEY CLARK	**Equipment:** MINISONIC TRACK	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			* light olive brown (2.5Y 5/4) grades to
1	0.3		Alluvium	SC	olive gray (5Y 5/2), clayey SAND (SC) w/
2	0.6	4.0'/5.0	▽		some SA-SR gravel, up to 3" in ~~0~~, moist
					ALLUVIUM
3	0.9				WL ≈ 2.0' bgs after appx 4 hours
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5.0'/5.0	Weathered Rome Formation	MH	gray (5Y 6/1), elastic SILT (MH) w/some angular Gravel/Shale Fragments
9	2.7				Weathered Rome Formation, saturated
10	3.1		Residuum Bedrock	SW	Terminated Boring @ 10
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B662

Date Started: 3/23/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 3/23/11 **Driller:** Minisonic Track **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Jeremy Trieplee **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	SW/SC	SW/SC	0'-3' dark yellowish brown (10YR 5/4), clayey f-c SAND well graded w/some SA-SR, little Ang gr, gr up to 4" in Ø, moist to wet, ALLUVIUM
1	0.3		RMC 3/23/11		
2	0.6	4.0'/5.0'	Alluvium	▽	3'-7' SAA except light olive gray (5Y 6/2)
3	0.9				WL = 2.0' bgs
4	1.2				
5	1.5	5'-10'			
6	1.8				7'-10' SAA except grades to olive (5Y 4/4)
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-15' pale olive (5Y 6/4), elastic SILT (MH) w/some ang gr. sized slate fragments, RESIDUUM/WEATHERED RONG FORMATION
11	3.4		MH RMC 3/23/11	MH	
12	3.7	5.0'/5.0'			
13	4.0		Residuum		
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-663

Date Started: 3/23/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 3/23/11 **Driller:** Jeremy Trieplee **Survey Unit:** 17
Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-
1	0.3		Alluvium	SC/SW	well ~~poorly~~ graded, clayey ft SAND (SC) RMC 3/23/11
2	0.6	3.5'/5.0'	▽		light olive brown (2.5Y 5/4), moist-wet
3	0.9				some SA-SR gravel up to 4" in Ø
4	1.2				
5	1.5				
		5'-10'			5'-10' SAA, but (SC) decreased large
6	1.8			SC	(greater than 2" Ø) gravel
7	2.1				grades to brownish yellow (10YR 6/8)
		5.0'/5.0'			@ appx 7.5' bgs
8	2.4				
9	2.7				
10	3.1				
		10'-15'			10'-15' SAA except saturated
11	3.4				
12	3.7	3.5'/5.0'			
13	4.0				
14	4.3				
15	4.6				15'-17'
		5'-20'			brownish yellow (10YR 6/6) elastic
16	4.9		Residuum	ML	17-20' SILT w/ some arg. gravel, SHALE
17	5.2				moist, RESIDUUM/WEATHERED ROME FM.
18	5.5		Bedrock	GW	well graded gravel w/sand/SHALE dry, BEDROCK
19	5.8				
20	6.1				Terminate Boring @ 20.0'

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-664

Date Started: 3/23/11 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 3/23/11 **Driller:** JEREMY TRIEPKE **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium SC	SC	0'- light olive brown (2.5Y 5/4), clayey f-c SAND (SC), w/ some SA-SR gravel, moist to wet, ALLUVIUM, gr up to 3" in ⌀
2	0.6	3.5'/5.0'	▽		
3	0.9				
4	1.2				WL @ 2.5' bgs.
5	1.5	5'-10'			
6	1.8				Utilize 0'-5' run for A & B sample & Run 5'-10' for C sample due to poor recovery
7	2.1	1.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-13' light brownish gray (2.5Y 6/2) ~~tean~~ clastic SILT, (MH?), wet-saturated some ang. gr SHALE fragments, some relict rock structure
11	3.4		Residuum		
12	3.7	5.0'/5.0'			13'-15' SAA except brownish-yellow (10YR 6/8), increase ang. gr SHALE
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

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Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-665

Date Started: 6/8/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1
Date Completed: 6/8/11 **Driller:** Jeremy Trepke **Survey Unit:** 17 KMC 6/9/11
Logged By: Rodney Clay **Equipment:** Geoprobe Ministonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	0'-5' light dark brown (2.5Y 5/4) clayey f-c SAND some SA-SR gravel; moist, gr. up to 2" in Ø
2	0.6	3.5'/5.0'	▽ WT@2'		
3	0.9				
4	1.2				
5	1.5	5'-10'		SC	5'-8' brownish yellow (10YR 6/6) clayey f-c SAND w/ some SA-SR gravel ~~moist~~ wet, gr up to 4" in Ø KMC 6/9/11
6	1.8				
7	2.1				
8	2.4	5.6'/5.0'			light yellowish brown (2.5Y 6/4) elastic SILT (MH), moist, some relict rock structures, trace ang. gr. shale, weathered. Rare Fm.
9	2.7		Residuum	MH	
10	3.1				Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.6				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-666

Date Started: 4/5/11	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1		
Date Completed: 4/5/11	**Driller:** Jeremy Triepke	**Survey Unit:** 17			
Logged By: Rodney Clark	**Equipment:** Minisonic Track	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-2.5'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/4), clayey gravelly fc SAND (SC), moist, some gr up to 4" in G
2	0.6	4.0'/5.0'			ALLUVIUM
3	0.9				2.5'-11.5 SAA except wet B
4	1.2				brownish yellow (10YR 6/8) A
5	1.5				
6	1.8	5'-10'			
7	2.1				
8	2.4	5'/5.0'			
9	2.7				
10	3.1				
11	3.4	10'-15			
12	3.7				brownish yellow (10YR 6/8), fat CLAY (CH), moist, little ang-gr-sized
13	4.0	7.0'/5.0'	Residuum	CH	Shale Fragments, some relict structure
14	4.3				high plasticity, residuum/weathered Rome Formation
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

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MACTEC Project 9120-07-1235

BORING NO. B-667

Date Started: 6/14/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 17

Date Completed: 6/14/11 **Driller:** Jeremy Treaple **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					0.0'-7.5'
		0'-5'	Alluvium	SM	light yellowish brown (2.5Y 6/4) silty, f-c SAND (SM) w/some SA-SR gravel, moist, gr. up to 3" in alluvium
1	0.3				
2	0.6	2.0'/5.0'	WT @ 3.5 bgs ▽		
3	0.9				
4	1.2				
5	1.5				wet @ 5.0'
		5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			7.5'-10.0'
8	2.4		Residuum	MH	light yellowish brown (10YR 6/4), elastic SILT (MH), some ang. gr-sized shale fragments, weathered Rome Formation
9	2.7				
10	3.1				Terminate Boring @ 10'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g. fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-668

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 6/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Geoprobe Mini-Sonic **Elevation:** TBD

RMC 6/9/11

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0-2.5'
1	0.3		Alluvium	CH	brown (10YR 5/3), f-c sandy fat CLAY (CH)
					w/some SA-SR gravel, moist
2	0.6	3.5/5.0	▽		ALLUVIUM
3	0.9		WT@2.0		2.5-5.0' brown (10YR 5/3), clayey f-c
				SC	SAND w/some SA-SR gravel, moist
4	1.2				alluvium
5	1.5				5.0'-9.5'
		5'-10'			
6	1.8				SAA except saturated
					(poor recovery)
7	2.1				
		2.5/5.0'			
8	2.4				
9	2.7				9.5'-15.0'
					Weathered Bedrock/Rock Fm.
10	3.1				brownish yellow (10YR 6/6), silty
		10'-15'			
11	3.4		Residuum	GW	well-graded GRAVEL (GW), wet
12	3.7				gr. is avg. shale fragments
		5.0/5.0'			
13	4.0				
14	4.3				
15	4.6				
16	4.9				Terminate Boring @ 15.0'
17	5.2				
18	5.6				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235 AG14

BORING NO. ~~B-614A~~ RMC 8/11/11

Date Started: 8/11/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2
Date Completed: 8/11/11 **Driller:** Jeremy Triepke **Survey Unit:** ~~G~~ RMC 8/11/11 17
Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-6.5' yellowish red (5YR 4/6), sandy fat CLAY (CH), moist, plastic
1	0.3			CH	some angular gr-sized slate/clay
2	0.6	4.5'/5.0'	FILL		FILL MATERIAL
3	0.9				
4	1.2				
5	1.5	5'-10'			6.5'-12.0 grayish brown (10YR 5/2), silty, f-c SAND (SM) well-graded (SW), few SA-SR gravel moist
6	1.8				
7	2.1	4.5'/5.0'	▽ Alluvium	SM/SW	
8	2.4				12.0'-~~16.0'~~ RMC ~~same as above except wet~~ RMC
9	2.7				yellowish brown (10YR 5/6), clayey f-c SAND (SC), wet, with
10	3.1	10'-15'			some SA-SR gr. alluvium
11	3.4				
12	3.7				
13	4.0	4.5'/5.0'		SC	
14	4.3				RMC 8/11/11
15	4.6				16.0'-20.0
16	4.9	15'-20'			brownish yellow (10YR 6/6) v. d. elastic SILT (MH) moist
17	5.2				some angular gr. sized slate
18	5.5	5.0'/5.0'			Weathered Rome Formation
19	5.8				RMC 8/11/11
20	6.1				~~Terminate Boring @ 20~~

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. AG14 ~~BG14A~~ RMC 8/11/11

Date Started: 8/11/11	**Drilling Contractor:** Boart Longyear	**Page** 2 **of** 2	
Date Completed: 8/11/11	**Driller:** Jeremiah Triaphe	**Survey Unit:** ~~3/11/11~~ RMC 17	
Logged By: Rodney Clark	**Equipment:** Minisonic	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'			Same as above but saturated
22	6.7	3.0'/5.0'			
23	7.0				
24	7.3				
25	7.6	25'-30'			25'-30' Weathered Rome Fm. brownish yellow (10YR 6/6), elastic
26	7.9		Residuum	MH	SILT (MH), moist, some angular
27	8.2				gravel-sized shale fragments.
28	8.5				Some ~~weat~~ relict rock structure 8/11/11 emc
29	8.8				
30	9.2				Terminate Boring
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey C-614 RMC 8/11/11

MACTEC Project 9120-07-1235

BORING NO. ~~B-614C~~

Date Started: 8/11/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 8/11/11 **Driller:** Jeremy Triplee **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-6.0'
1	0.3				reddish brown (5YR 4/4), sandy
2	0.6	4.0'		CH	fat CLAY (CH), moist,
3	0.9	5.0'	FILL		
4	1.2				
5	1.5	5'-10'			6.0'-12.0'
6	1.8				grayish brown (10YR 5/2), silty well-
7	2.1	5.0'			graded f-c SAND (SM/SW), moist,
8	2.4	5.0'	ALLUVIUM	SM/SW	some SR gr, gr. up to 2" in ø
9	2.7				
10	3.1	10'-15'			12.0'-16.0'
11	3.4				yellowish brown (10YR 5/6), clayey
12	3.7	4.5'			f-c SAND (SC), wet, w/some
13	4.0	5.0		SC	SA-SR gravel, gr up to 1" in ø
14	4.3				
15	4.6				
16	4.9	15'-20'			16.0'
17	5.2	4.5'			brownish yellow (10YR 6/6)
18	5.5	5.0	Residuum		clayey (elastic SILT (MH), moist, some SA-SR
19	5.8				gravel (RMC 8/11 ang. gr-sized
20	6.1				shale fragments
					Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

D-614 RMC 8/11/11

BORING NO. ~~B-614D~~

Date Started: 8/11/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 8/11/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'			0.0'-5.0' reddish brown (5YR 4/4), sandy fat CLAY (CH), moist, few org. gr., fill material
2	0.6	4.5'/5.0'	FILL		
3	0.9			CH	
4	1.2				
5	1.5				5.0'-~~7.5'~~ RMC 8/11/11 100% grayish brown (10YR 5/2), silty well graded f-c SAND (SM/SW), moist, some SA-SR gravel gr. up to 2" in Ø
6	1.8	5'-10'		SM	
7	2.1	4.5'/5.0'	Alluvium	SW	
8	2.4				~~7.5'~~ RMC 8/11/11
9	2.7				
10	3.1				10.0'-12 yellowish brown (10YR 5/6) clayey f-c SAND (SC) w/ some SA-SR gravel, wet, gr. is up to 4" in Ø, alluvium
11	3.4	10'-15'		SC	
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	~~15'-20'~~			
17	5.2	4.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

D614 8/10/11 RMC

BORING NO. ~~B614D~~

Date Started: 8/11/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 8/11/11 **Driller:** Jeremy Triepke **Survey Unit:** 17

Logged By: Rob Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		~~20-25~~			pale yellow (2.5Y 7/3), silty well-graded f-m SAND (SM/SW) wet, few gr SA-SR ≠ up to 2" in O, alluvium
21	6.4		Alluvium	SM/SW	
22	6.7	5.0'			
23	7.0	5.0			
					24.0 – 25.0
24	7.3				brownish yellow (10YR 6/6), clayey elastic SILT (MH) moist-saturated
25	7.6		Residuum	MH	Weathered Ronna FM.
26	7.9				Terminate Boring @ 25.0'
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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Appendix D.7

Soil Boring Logs

Survey Unit 18

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-669

Date Started: 12/9/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	yellowish brown (10YR 5/6), clayey, f-c SAND, w/ some SA-SR gr. alluvium, gr up to 4" Ø
2	0.6	4.5'/5.0'			
3	0.9		▽ WT@3'		
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	15'-20'		SC	yellowish brown (10YR 5/6), clayey GRAVEL (GC), w/some sand, gr is up 6" in Ø wet/saturated
11	3.4				
12	3.7	4.5'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				SAA except brownish yellow (10YR 6/6)
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-669

Date Started: 12/9/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney C. **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium	GC	SAA
22	6.7	5.0'/5.0'			
23	7.0				
24	7.3				
25	7.6	25'-30'			brownish yellow (10YR 6/6) silty, f-c SAND wet, some SA-SR gr, primarily ang. coarse quartz sand
26	7.9				
27	8.2	5.0'/5.0'			
28	8.5				
29	8.8				
30	9.2	30'-35'			
31	9.5				
32	9.8	5.0'/5.0'			
33	10.1				
34	10.4				
35	10.7				Terminate Boring @ 35' bgs
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B670

Date Started: 12/3/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 12/3/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: RODNEY CLARK **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SC	0'-3' olive gray (5Y 5/2), clayey f-c SAND,
1	0.3		WT@2'		some SA-SR gravel, wet, trace roots
2	0.6	5/5'	▽		3'
3	0.9				SAA except
					brownish yellow (10YR 6/8)
4	1.2				
5	1.5				
		5'-10'			
6	1.8				
7	2.1				
		5/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			SAA except saturated
11	3.4				
12	3.7				
		3/5'			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			yellowish red (5YR 4/6), clayey f-c
16	4.9				SAND (SC) some SA-SR gravel, wet, ALLUVIUM
17	5.2				
		5/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B670

Date Started: 12/3/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/3/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25			
21	6.4		Alluvium		SAA
	G				
22	6.7	5'/5'			
23	~~7.0~~				
				SC	
24	7.3				
	H				
25	7.6				25'-30' fc Strong brown (7.5YR 5/6), silty SAND
		25'-30			Some SA SR gr. alluvium, wet/sat,
26	7.9			SM	primarily quartz sand, little clay
27	8.2	5'/5'			/silt
	I				
28	8.5				
29	8.8				
30	9.2				30-35' brownish yellow 10YR 6/8
		30'-35'			~~see Rec 12/3/10~~ clayey, gravelly SAND
31	9.5			SC	(SC); wet. gr is a-SR primarily
32	9.8	5'/5'			granule to pebble sized
33	10.1				
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-671

Date Started: 12/3/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 12/3/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	brownish yellow (10YR 6/8), dayey f-c SAND (SC) some SA-SR gr up to 3" in PO, wet, primarily f-c quartz sand
2	0.6	5/5'	WT @ 2' ▽		
3	0.9				
4	1.2				
5	1.5	5'-10'			b
6	1.8				
7	2.1	4/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'		GW	brownish yellow (10YR 6/8), dayey, sandy well graded GRAVEL, wet, some f-c sand mostly gravel/cobble sized alluvium
11	3.4				
12	3.7	5/5'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	5/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-671

Date Started: 12/3/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/3/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			SAA except yellowish brown (5YR 5/6)
21	6.4		Alluvium	GW	
22	6.7	5'/5'			
23	7.0				
24	7.3				
25	7.6				
		25'-30'			
26	7.9		Alluvium	GW	
27	8.2	5'/5'			
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8				
33	10.1	5'/5'			
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-672

Date Started: 12/9/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		0'-2' light yellowish brown (10YR 6/4), fat CLAY (CH) w/some SA-SR gr, moist, alluvium
1	0.3			CH	some sand, trace roots
2	0.6	4.6'/5.0'	▽		2'-10' light yellowish brown (10YR 6/4), clayey
3	0.9		WTW 2' bgs	SC	f-c SAND w/some SA-SR gr, alluvium wet, gr is up to 2" in ⊖
4	1.2				
5	1.5	5'-10'			
6	1.8				large cobble from 6'-8' bgs
7	2.1	5.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-15' SAA, cobbles up to 5" in ⊖
11	3.4				
12	3.7	4.8'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			15'-20' yellowish brown (10YR 5/6), silty f-c SAND
16	4.9			SM	wet, some few SA-SR gr up to 2" in ⊖
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1			SC	

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-672

Date Started: 12/9/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Triephe **Survey Unit:** 18

Logged By: Rodney Cloud **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			20'-35'
21	6.4		Alluvium	SC	brownish yellow (10YR 6/6), clayey, f-c SAND, w/some SA-SR gr, wet, alluvium, gr up to 5" in ⌀
22	6.7	5.0'/5.0'			
23	7.0				
24	7.3				
25	7.6	25'-30'			
26	7.9				
27	8.2				
28	8.5	5.0'/5.0'			
29	8.8				
30	9.2	30'-35'			
31	9.5				
32	9.8	4.5/5.0			
33	10.1				
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-673

Date Started: 12/1/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/1/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			brownish yellow (10YR 6/6) + Layer SAND
1	0.3		Alluvium	SU	(SU), wet, sand is f-c, some SA-SR gr
		2.5'/5.0'			up to 4" ⊖ ; ALLUVIUM
2	0.6		▽		
3	0.9		WT @ 2' bgs		
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			brownish yellow (10YR 6/8) fat CLAY (CH) some
11	3.4				SR - Ang. gravel, ALLUVIUM w/some shale
12	3.7	5'/5'			brownish yellow (10YR 6/8), fat CLAY (CH)
					some ang. gravel, shale fragments
13	4.0		Residuum	CH	some relict rock structure
					Weathered Rome Formation
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-674

Date Started: 11/30/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** ____

Date Completed: 11/30/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0-1.5 pale olive (5Y 6/3), sandy fat CLAY (CH)
1	0.3		Alluvium	CH	moist, sand is f-c, some SA-SR gr.
					ALLUVIUM
2	0.6	5'/5'		WT	1.5 brownish yellow 10YR 6/6 clayey
3	0.9			▽	f-c SAND (SC), moist, some SA-SR Gr.
				3' bgs	up to 3" ⌀, ALLUVIUM
4	1.2			SC	
5	1.5	5'-10'			wet @ 5' bgs
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				11.5'-14' brownish yellow (10YR 6/8),
12	3.7	5'/5'			fat CLAY (CH) w/some SR-WR gr., little
13	4.0			CH	shale, (foreign debris/metal pallet, called RT) in matrix is brownish yel.
14	4.3				14'-15' lean SILT, some shale a. gr.
			Residuum	ML	some relict rock structure, Weathered Rome Fm
15	4.6				Terminate Boring @ 15
16	4.9				
17	5.2				Carbide tooth
18	5.5				from drill bit
19	5.8				
20	6.1				

= Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

a/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-675

Date Started: 12/8/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/8/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	brownish yellow (10YR 6/6), clayey SAND (SC) w/some SA-SR gr alluvium, wet, gr up to 3" in ⊖
2	0.6	4.2'/5.0'	▽		
3	0.9				
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	4.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			(10YR 5/6) yellowish brown sandy, fat CLAY (CH) some A-SR gr alluvium & shale frag. wet, structure not observed/disturbed
16	4.9			CH	
17	5.2				
18	5.5				weak red (2.5YR 5/2) fat CLAY (CH) w/some ang. shale fragments, laminated, some relict rock structure, weathered Rome Fm.
19	5.8		Residuum	CH	
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-676

Date Started: 12/3/10 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 2

Date Completed: 12/3/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			
1	0.3		Alluvium		light yellowish brown (10YR 6/4), sandy fat
		4.5'/5.0'		CH	CLAY (CH) w/some SA-SR gr., alluvium
2	0.6		▽ WT 2.6' bgs		moist.
3	0.9				3.0'
					light gray (2.5Y 6/2) silty, f-c SAND, (SM)
4	1.2			SM	few SA-SR gr, wet, alluvium
5	1.5				5'-7'
		5'-10			light yellowish brown (10YR 6/4), sandy fat
6	1.8			CH	CLAY (CH) w/some SA-SR gravel
					7'-10'
7	2.1				yellowish brown 10YR 5/6 clayey SAND w/
		4.7'/5.0'			some gr (SA-SR), wet, alluvium
8	2.4			SC	
9	2.7				10.0' – 35.0'
10	3.1				brownish yellow (10YR 5/6), sandy
		10'-15'			GRAVEL, gr is SA-SR ≠ up to 4"
11	3.4			GW	in ⊖, few fines, wet to saturated
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2				
		4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B676

Date Started: 12/3/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/3/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			SAA (saturated)
21	6.4		Alluvium	GW	
22	6.7	4.8'/5.0'			
23	7.0				
24	7.3				
25	7.6	25'-30'			
26	7.9				
27	8.2	5'/5'			
28	8.5				
29	8.8				
30	9.2	30'-35'			
31	9.5				
32	9.8	4.5'/5.0'			
33	10.1				Sample J interval to 33'
34	10.4				
35	10.7				Terminate boring @ 35' bgs
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-677

Date Started: 12/9/10 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'	Alluvium	SC	
21	6.4				
22	6.7	3.0'/5.0'			
23	7.0				
24	7.3				
25	7.6				
		25'-30'		SM/SP	light yellowish brown (10YR 6/4), mostly coarse silty SAND, wet, coarsening downwards (SP/SM)
26	7.9				
27	8.2	6.0'/5.0'			
28	8.5				light yellowish brown well-graded, clayey GRAVEL, wet, w/some sand (GC/GW)
29	8.8			GC/GW	
30	9.2				
		30'-35'			
31	9.5				
32	9.8	5.0'/5.0'			
33	10.1				Sample J to 33' bgs 33'-35' yellowish brown (10YR 6/4), fat CLAY (CH) w/some A SR gr. alluvium few ang. gr. shale
34	10.4				
35	10.7				Terminate Boring @ 35' bgs
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-677

Date Started: 12/9/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 12/9/10 **Driller:** Jeremy Joseph **Survey Unit:** 18

Logged By: Rocky Cook **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	SM	light yellowish brown, silty f-c SAND (SM) ~~wet~~ RMC 12/9/10 some SA-SR gr alluvium, moist (10YR 6/4)
1	0.3				
2	0.6	3.8'/5.0'	WT @ Surface		
3	0.9				
4	1.2				4'-5' ~~clayey~~ RMC 12/9/10
				CH	sandy fat CLAY (CH) moist
5	1.5	5'-10'		SC	5' brownish yellow (10YR 6/6) clayey f-c SAND, w/some SA-SR gravel, alluvium, wet, gr up to 3" in Ø
6	1.8				
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			SAA except saturated & gr up to 5" in Ø
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B678

Date Started: 12/1/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/1/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3.5'
1	0.3		Alluvium	SM	olive (5Y 5/3), silty SAND (SM) w/some SR-SA
2	0.6	4.5'/5.0'	▽		gravel, moist, gr up to 2" ø, ALLUVIUM
3	0.9		WT @ 2'6" gs		3.5'
4	1.2				brownish yellow (10YR 6/6), clayey
5	1.5	5'-10'			SAND (SC) w/some SA-SR gravel
6	1.8				wet, gr up to 4" ø, ALLUVIUM
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				brownish yellow (10YR 6/6) fat CLAY
13	4.0		Residuum		(CH), moist, some relict rock structure,
14	4.3				laminated, high Plasticity, low toughness
					few ang shale frag / weathered
					Rome Formation
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-679

Date Started: 11/29/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/29/10 **Driller:** Jeremey Triphe' **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Truck **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'		SC	0'-10.5'
1	0.3		Alluvium		yellowish brown (10YR 5/8), clayey SAND (SC)
2	0.6	4'/5'			w/SA to SR gr, gr up to ~~40~~, moist
			WT @ 3'		some, petroleum-like odor
3	0.9		▽		
4	1.2				
5	1.5				
		5'-10			SAA except wet
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				10.5'-15'
		10'-15'			brownish yellow (10YR 6/8), elastic
11	3.4				SILT, some ang. gr (shale fragments)
				MH	some relict rock structure
12	3.7				Weathered Rome Formation
					-collect D sample to 13'
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15.0'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-680

Date Started: 11/30/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/30/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	brownish yellow (10YR 5/8), clayey SAND (SC) moist, some gr SA-SR & up to 4" Ø
2	0.6	4/5			
3	0.9				color change olive 5Y 5/3 @ 3'
4	1.2				color change @ 3.5' to light olive brown (2.5Y 5/6)
5	1.5				
6	1.8	5'-10'			brownish yellow (10YR 6/6), clayey SAND (SC) w/some SA-SR gravel, ALLUVIUM
7	2.1	5/5			
8	2.4				wet
9	2.7				
10	3.1				
11	3.4	10'-15'			
12	3.7				brownish yellow (10YR 6/8)
13	4.0	5/5			elastic SILT (MH) w/sand, some gr (A-SR) little shale
14	4.3			MH	fragments, SR-5" Ø cobble
15	4.6				disorganized/disturbed
16	4.9	15'-20'		CH	fat CLAY, brownish 10YR (10YR 6/8), some ang. gr, shale, some rel. rock structure, Weathered Rock Formation
17	5.2	5/5			
18	5.5				Collect E interval to 16.2'
19	5.8				
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B681

Date Started: 11/30/10 **Drilling Contractor:** BART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/30/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	olive yellow 2.5Y 6/6 w/ some greenish gray (GLEY1 6/10BG), silty SAND (SM) some SA-SR gr up to 3" Ø & trace clay, tensing moist, trace mica
2	0.6				
3	0.9	4'/5'			
4	1.2			SC	4'-6' olive 5Y 5/6 clayey SAND (SC) w/ some gr (SA-SR up to 2" Ø), wet
5	1.5				
6	1.8	5'-10'			6' SAA except brownish yellow (10YR 6/8)
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'		GW	10'-12' strong brown (7.5YR 5/6), well graded GRAVEL, wet, gr is A-SR, some shale
12	3.7	5'/5'			
13	4.0			CH	12-13.5' brownish yellow (10YR 6/8), fat CLAY (CH) some gravel, disturbed
14	4.3		Residuum		
15	4.6				Terminate Boring @ 15' bgs
16	4.9				13.5'-15' Weathered Rona Fm brownish yellow (10YR 6/6), fat CLAY w/ some gravel, ang. shale, some relict rock structure (eg. laminations, bedding)
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-682

Date Started: 11/30/2010 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 11/30/2010 **Driller:** JEREMY TRUPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	light olive brown (2.5Y 5/3) silty SAND (SM) moist some gr SA-SR. ~ up to 2" O, moist
2	0.6	5'/5'	WT@36.5 ▽	SC	pale yellow (2.5Y 7/3) clayey SAND (SC), moist mostly f. sand, some coarse sand ~ gr (SA-SR), moist
3	0.9				
4	1.2				
5	1.5	5'-10'			SAA except wet ~ brownish yellow (10YR 6/6)
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	4'/5'			
13	4.0				
14	4.3				
15	4.6	15'-20			SAA ~~as~~ except saturated RMC 11/30/10
16	4.9				
17	5.2	4'/5'			
18	F 5.5				
19	5.8				
20	6.1				See page 2

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-682

Date Started: 11/30/10 **Drilling Contractor:** _____ **Page** 2 **of** 2

Date Completed: 11/30/10 **Driller:** Jeremy Triapka **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIST	USCS	DESCRIPTION
		20'-25'			brownish yellow (10YR 6/6), lean
21	6.4	5'/5'	Residuum	CL	CLAY (CL), w/some gr (ang shale)
22	6.7				saturated, weathered Rome Fm
23	7.0				yellowish red (5YR 4/6), GRAVEL/SHALE
24	7.3		Rome Fm	GW	Rome Formation
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status

MACTEC Project 9120-07-1235

This is actually B-683 but was mislabeled in

BORING NO. B-681

Date Started: 12/8/10	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 2
Date Completed: 12/16/10	**Driller:** JEREMY TRIEPKE	**Survey Unit:** 18	
Logged By: Rodney Clark	**Equipment:** MINISONIC TRACK	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	0.0'-3.5' brownish yellow (10YR 6/6), silty SAND (SM) moist, some SA-SR grav., ALLUVIUM, primarily f-m grained SAND quartz
2	0.6	5'/5'			
3	0.9				3.5'-5.0 yellowish brown (10YR 5/8), very fine SAND w/some silt (SM), little gr.
4	1.2				
5	1.5	5'-10'			5.0'- brownish yellow (10YR 6/8) clayey SAND (SC) w/SA-SR gr wet, ALLUVIUM, sand is f-c gr. up to 8" ⊖
6	1.8			SC	
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				2-B-681
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Statu

MACTEC Project 9120-07-1235

This is actually B-683 but was

BORING NO. B-681

Date Started: 12/6/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 12/6/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium	SL	SAA except saturated
22	6.7	4.5'/5.0'			
23	7.0				
24	7.3				
25	7.6				
26	7.9	25'-30'			
27	8.2	5.0'/5.0'			
28	8.5				KWL 12/6/10
29	8.8				weak
30	9.2				
31	9.5	30'-35'			
32	9.8	5.0'/5.0'			Complete Sampling to J interval
33	10.1		Rome Fm Residuum	MH	33'-35' weak red (10R 4/3), elastic SILT (MH) w/some ang. gr. frag of shale, laminated, fissile shale frag. (WEATHERED ROME FORMATION)
34	10.4				
35	10.7				
36	11.0				Terminate Boring @ 35' bgs
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-684

Date Started: 12/7/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/8/10 **Driller:** Jeremy Triplhe **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		
1	0.3	3.5'/5.0'	WT @ surface	SC	light olive brown (2.5Y 5/3) clayey SAND (SC), wet, w/some SA:SR gr. alluvium
2	0.6				
3	0.9				
4	1.2				Drill rig "blew out" hydraulic line @ start of 5'-10' run / hydraulic fluid
5	1.5	5'-10'			on ground surface & top of water.
6	1.8	2.0'/5.0'			Clean w/ absorbent pads and dig out surfa cutting. RM 12/7/10 soil around spill area & place into NFS drum
7	2.1				12/8/10 continue drilling from 5' bgs
8	2.4				
9	2.7				Weathered Rome Fm: yellowish brown (10YR5/8)
10	3.1	10'-15'	Residuum	CH	fat CLAY (CH) w/some ang. gr-sized shale fragments, some relict rock structure
11	3.4				← Due to poor recovery on 5'-10' run, portion of upper 10'-15' included as sample.
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15' bgs.
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-685

Date Started: 12/8/10	**Drilling Contractor:** Boart Longyear	**Page** 1	**of** 1
Date Completed: 12/8/10	**Driller:** Jeremy Trieplee	**Survey Unit:** 18	
Logged By: [illegible]	**Equipment:** Minisonic Trac Ch	**Elevation:** TBD	

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	yellowish brown, (10YR 5/6), silty f-c SAND, wet ~~gr is~~ RMC 12/8/10 some SA-SR gr
2	0.6	5.0/5.0	WT@16'		alluvium (SM)
3	0.9				
4	1.2				
5	1.5	5'-10'			brownish yellow (10YR 6/6), fat CLAY w/some org. shale fragments, some relict rock
6	1.8			CH	structure (laminated fissle), Weathered
7	2.1	5.0/5.0	Residuum		Rome Formation
8	2.4				
9	2.7				
10	3.1				← Terminate Boring @ 10.0'
11	3.4				
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B686

Date Started: 12/2/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 12/2/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 5'/5'	Alluvium ▽ WT@2'	SC	light yellow brown (2.5Y 6/4), clayey f-c SAND (SC), some SA-SR gr up to 4" in Ø, moist-wet
2	0.6				
3	0.9				
4	1.2				
5	1.5	5'-10'			SAA brownish yellow (10YR 6/6)
6	1.8				
7	2.1	4'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			11'-15' Weathered Rome Fm. brownish yellow (10YR 6/8) fat CLAY w/ gravel, gr is aang.
11	3.4				
12	3.7	5'/5'	Residuum	CH	Shale fragments, some relict rock structure wet
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15' bgs
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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MACTEC Project 9120-07-1235

BORING NO. B-687

Date Started: 11/29/10	**Drilling Contractor:** BOART LONGYEAR	**Page** 1	**of** 1		
Date Completed: 11/29/10	**Driller:** JEREMY TRIPKE	**Survey Unit:** 18			
Logged By: Rodney Clark	**Equipment:** MINISONIC TRACK	**Elevation:** TBD			

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 5'/5'	Alluvium	SC	dive brown 2.5Y 7/3) clayey SAND w/some gravel, gr SA-SR, moist, trace roots
2	0.6		WT @ 3' ▽		
3	0.9				brownish yellow (10YR 6/8), clayey SAND (SC) w/some gr (SA-SR), gr up to 4" ø, wet
4	1.2				
5	1.5	5'-10'			
6	1.8				
7	2.1	5'/5'			
8	2.4				
9	2.7		Residuum	CH	very pale brown (10YR 8/2) to yellow (10YR 6/6) fat CLAY w/ some gr, gr is ang. Shale fragments, some relict rock structure (laminated, bedding)
10	3.1				Weathered Rome Fm.
11	3.4				↖ Terminate Boring @ 10'
12	3.7				
13	4.0				
14	4.3				
15	4.6				
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-688

Date Started: 11/29/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/29/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	CH	pale yellow (5Y 7/3), sandy fat CLAY (CH), moist, few SA-SR gr., sand is f-c, trace roots
2	0.6	3.5'/5.0'			grades to silty SAND (SM) @ appx 3' bgs
3	0.9		WT 3.5' ▽		
4	1.2			SM	
5	1.5				
6	1.8	5'-10'		SC	pale olive (5Y 6/4) clayey f-c SAND wet, some SA-SR gr up to 2" in ⊖
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			SAA olive yellow 5Y 6/6 & gr up to 4" in ⊖
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				@ 14' Top of Rome Formation, brownish yellow (10YR 6/6) fat CLAY (CH) w/ some Ang. Gr. (shale fragments), some relict rock structure (laminations, bedding)
15	4.6	15'-20'	Residuum (Rome Fm)	CH	
16	4.9				RESIDUUM
17	5.2	5'/5'			Sampled E interval to 16.5' bgs
18	5.5				
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-689

Date Started: 12/3/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 12/3/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18 TBD

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-4.0'
1	0.3		Alluvium	CH	Brownish yellow (10YR 6/8), fat CLAY (CH)
2	0.6	5.0/5.0	▽ WT@2'		some fine sand, few SA-SR gr, moist, trace roots
3	0.9				4.0'-6.5'
4	1.2			OL	very dark grayish brown (10YR 3/2), organic SILT (OL)
5	1.5				moist-wet, some roots, few A-SR gr
6	1.8	5'-10'			6.5'
7	2.1	4.8/5.0		SC	very dark grayish brown, clayey SAND, some organics, (SC), wet, gr. is A-SR alluvium
8	2.4				
9	2.7				
10	3.1	10'-15'			yellowish brown (10YR 5/8), clayey f-c SAND w/some gravel, saturated, alluvium
11	3.4				
12	3.7	4.7/5.0			
13	4.0				
14	4.3				
15	4.6	15'-20'			SAA (very saturated)
16	4.9				Sample is semi-liquid
17	5.2	2.0/5.0			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-689

Date Started: 12/3/10 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 12/3/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Cl **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'			
21	6.4				22'-24'
22	6.7				very pale brown (10YR 7/3), laminated, fissle
			Rome		shale, Rome Formation, moderately indurated
23	7.0		FM		intact fracturing (mechanical primarily) idiy
		24' (Bedrock)			
24	7.3				Terminate Boring @ 24'
25	7.6				
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-690

Date Started: 12/9/10 **Drilling Contractor:** Bart Longyear **Page** 1 **of** 1

Date Completed: 12/9/10 **Driller:** Jeremy Treybe **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					0'-1.5'
1	0.3	0'-5'	Alluvium	CH	light yellowish brown (2.5Y 6/4), fat CLAY (CH) w/some sand, few SA-SR gr
		5.0/5.0'			1.5'-4'
2	0.6		▽ WT@2' bgs		very pale brown (10YR 7/3) silty, SAND (SM)
3	0.9			SM	some SA-SR gr, wet, alluvium
					4'-5'
4	1.2				very pale brown (10YR 7/3) sandy, fat
				CH	CLAY (CH), some SA-SR gr moist
5	1.5	5'-10'			5'-19'
				SC	brownish yellow (10YR 6/6), clayey, f-c
6	1.8				SAND (SC) wet, gr is SA-SR ≥ up
7	2.1	4.8'/5.0'			to 2" ⊖
8	2.4				
9	2.7				
10	3.1	10'-15'			SAA except saturated
11	3.4				
12	3.7	4.6'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.0'/5.0'			
18	5.5				Weathered Rome Formation
19	5.8				brownish yellow (10YR 6/8), elastic SILT, some
			Residuum	MH	ang. gr-sized shale fragments
20	6.1				Terminate Boring @ 20' bgs

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-691

Date Started: 12/8/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: _____ **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		light yellowish brown (2.5Y 6/4), silty, f-c SAND
1	0.3		▽		(SM), wet, w/some SA-SR gr. alluvium
2	0.6	4.3'/5.0'	WT @ 1' bgs	SM	primarily quartz sand.
3	0.9				
4	1.2				
			Alluvium		
5	1.5	5'-10'			SAA except clayey SAND (SC) wet,
6	1.8			SC	w/some SA-SR gr, gr up to 3" in ø
7	2.1	4.8'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			No recovery
11	3.4	No			
12	3.7	recovery			
13	4.0				
14	4.3				
15	4.6	15'-20'			SAA except Saturated
16	4.9				
17	5.2	6.0'/5.0'			
18	5.5				
19	5.8				brownish yellow (10YR 6/8), elastic SILT w/
			Residuum		some arg. gr. (shale fragments) saturated
20	6.1				Weathered Rome Formation
					Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B692

Date Started: 12/2/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/2/10 **Driller:** Jeremy Triephe **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	CH	light olive brown (2.5Y 5/3), fat CLAY (CH) w/ some sand & gr. gr is SA-SR & up to 1" Q
2	0.6	2.0'/5.0'	WT@3' bgs		
3	0.9		▽	SM	light olive brown (2.5Y 5/3) silty, f-c SAND (SM) wet, some SA-SR gr. up to 2" Q
4	1.2				↖ drillers indicate lost recovery was semi fluid & mostly fell onto ground surface
5	1.5	5'-10'			↙
6	1.8			SC	brownish yellow (10YR 6/6), clayey f-c SAND (SC) w/ some SA-SR gr. wet ALLUVIUM
7	2.1	2.0'/5.0'			
8	2.4				
9	2.7				11'-15' Weathered Rcny Formation brownish yellow (10YR 6/8), clayey poorly graded GRAVEL wet gr is ang. shale
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'	Residual	GP	
13	4.0				
14	4.3				
15	4.6				Terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-693

Date Started: 11/29/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/29/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0-1.5'
1	0.3	4.0'/5.0'	Alluvium	CH	olive gray (5Y 5/2), sandy, fat CLAY (CH) moist some SA-SR gr, few roots
2	0.6				
3	0.9		▽ WT @ 3'	SM	pale yellow (2.5Y 7/3), silty f-c SAND (SM) ~~moist-wet~~, some SA-SR gr
4	1.2				
5	1.5	5'-10'			light yellowish brown (2.5Y 6/4), clayey
6	1.8	4.0'/5.0'		SC	f-c SAND, wet, some SA-SR gr gr up to 4" ~~O~~
7	2.1				
8	2.4				
9	2.7				
10	3.1				11' light yellowish brown (2.5Y 6/4) well graded GRAVEL, wet, mostly SR gr up to 3" ~~O~~, some clayey ~~SAND~~
11	3.4	10'-13' 3.0'/3.0'		GW	
12	3.7				
13	4.0				Hard drilling 12'-15'
14	4.3	13'-15' 2.0'/2.0'	Rome Fm		Red (2.5YR 4/6) & olive (5Y 5/6), Shale Rome Formation, laminated, some clay
15	4.6				~~Terminate Boring @ 15'~~
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-694

Date Started: 11/22/2010 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/22/2010 **Driller:** Jeremy Triplett **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	CH	0'-3.5' sandy fat CLAY, CH, moist, some SA-SR gr. up to 2" Ø, sand is primarily fine, trace roots
2	0.6	3.5'/5.0'			
3	0.9		WT@3.5' ▽		
4	1.2			SM	pale yellow 2.5Y 7/4, silty f-c SAND (SM) wet, some SA-SR gr up to 2" Ø
5	1.5	5'-10'			light olive gray (5Y 3/2), silty f-c
6	1.8				SAND (SM) wet, ~~some~~ few SA-SR
7	2.1	5.0/5.0			gr. up to 2" Ø PMC 11/22/10 primarily ang-suba quartz
8	2.4				sand trace mica
9	2.7				
10	3.1	10'-15'		SC	light yellowish brown (2.5Y 6/4), clayey,
11	3.4	5.0/5.0			f-c SAND (SM) w/some gr (SA-SR)
12	3.7				wet, ALLUVIUM, up to 4" Ø
13	4.0				
14	4.3				
15	4.6	15'-16'		GW	15'-16' cobble/boulder of quartzite
16	4.9	1.0'/1.0'			light yellowish brown (2.5Y 6/4)
		16'-19'		16'-17'	fat CLAY (CH), moist, ang. rock fragments
17	5.2	3.0'/3.0'		17'-19'	high toughness, high plasticity, light greenish gray to very pale brown, GLEY 1 7/N, laminated
18	5.5		Weathered Rome Fm		~~dolostone~~/shale, weathered Rome Formation PMC 11/22/10
19	5.8				~~19'~~ PMC 11/22/10
20	6.1				Terminate Boring @ 19'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-695

Date Started: 11/19/10 ~~11/18/10~~ RMC 11/19/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 11/19/10 ~~11/18/10~~ RMC 11/19/10 **Driller:** Jeremy Triplett **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Mini-Sonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-0'-1.5' grayish brown (10YR 5/2)
1	0.3		Alluvium	CH	fat CLAY (CH) w/sandy, moist, little roots,
2	0.6	5'/5'		SM	sand is f-c, some SR-WR gravel up to 1" Ø
3	0.9		WT@4'bg		1.5' 7 very pale brown (10YR 7/3)
4	1.2		▽		silty, f-c SAND w/some SA-SR gravel
5	1.5	5'-10'			moist, mostly quartz sand, gr. up to
6	1.8				3" Ø
		4.5'/5.0'			7.0'-7.7'
7	2.1			CH	-Clay lense strong brown (7.5YR 5/6)
8	2.4				fat CLAY w/sand (CH) moist
					7.7'-10'
9	2.7				(light olive brown 2.5Y 5/3) silty f-c SAND w/
					some SA-SR gr, wet, alluvium
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				10'-20'
15	4.6	15'-20'			strong brown (7.5YR 5/6), clayey
16	4.9				SAND w/some SA-SR gr.
17	5.2	5'/5'			wet/saturated, ALLUVIUM
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-695

Date Started: 11/19/18 ~~11/19/10~~ RMC 11/19/18 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 11/19/18 ~~11/19/10~~ RMC 11/19/18 **Driller:** Jeremy Tripke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
					20'-22'
21	6.4		Alluvium	CH	strong brown (7.5YR 5/6), fat CLAY, w/ some F-C sand & some - few ang (shale) to SR (quartzite) gravel
22	6.7				ALLUVIUM 22'-25'
23	7.0		Residuum		reddish yellow (5YR 5/6), fat CLAY (CH) moist, some ang. gravel (shale) some relict rock structure
24	7.3		Rome Fm.		(eg laminations) high plastic. med-high toughness,
25	7.6				Terminated Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B696

Date Started: 11/19/16 ~~11/18/16~~ RMC 11/29/18 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/19/16 ~~11/18/16~~ RMC 11/29/18 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-7.5'
1	0.3		Alluvium	SM	light yellowish brown (2.5Y 6/4), silty, f-c SAND w/some SA-SR gravel, alluvium, moist
2	0.6	5'/5'			
3	0.9		▽		wet @ 3.5'
4	1.2				
5	1.5	5'-10'			
6	1.8				@ 7.5' → 15', grades to strong brown (7.5YR 5/6) clayey SAND (SC) w/some SA-SR gravel, Alluvium, wet, gr up to 4"ø
7	2.1	5'/5'			
8	2.4			SC	
9	2.7				
10	3.1	10'-15			
11	3.4				
12	3.7	5.0'/5'			
13	4.0				
14	4.3				15'-20'
15	4.6				
16	4.9	15'-20'	Weathered Rome		yellowish red 5YR 5/6 laminated w/ yellow (10YR 7/6), fat CLAY w/ little A. gravel shale fragments, some relict rock structure, high plasticity, medium toughness, Weathered Rome Fm / Residuum
17	5.2	5'/5'	Fm.		
18	5.5		Residuum		
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-697

Date Started: 11/18/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/18/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3.8'
1	0.3		Alluvium	SM	light yellowish brown (2.5Y 6/4), silty, f-c SAND, some SA-SR gr, up to 4"⌀, moist, ~~[illegible]~~, RMC 11/19/10
	A				
2	0.6	5'/5'			Alluvium
3	0.9				
					3.8'-5.0'
4	1.2				
	B			CH	olive yellow (2.5Y 6/6) mottled w/
5	1.5				some light gray 2.5Y 7/2, fat CLAY
		5'-10'		SM	w/some sand, few gr. primarily
6	1.8				up to 3"⌀, laminated, trace mica
7	2.1	5'/5'			high plasticity, high toughness
					5.0'-8.5' strong brown (7.5YR 5/6)
8	2.4				~~[illegible]~~ silty f-c SAND (SM),
	C				wet, some gr SA-WR & up to
9	2.7			SC	4"⌀
10	3.1				8.5'-18' SAA except clayey SAND
		10'-15'			(SC)
11	3.4				
	D				
12	3.7	5'/5'			
13	4.0				
14	4.3				
	E				
15	4.6				
		15'-20'			SAA except Saturated
16	4.9				
					Strong brown (7.5YR 5/6)
17	5.2	4.5'/5.0'			18'-19' lean CLAY w/gravel,
	F				Ang-Well R. Alluvium, ~~wet~~/saturated
18	5.5			CL	
19	5.8				19'-20' fat CLAY CH w/some ang.
			Rome Fm	CH	gr. (shale frag) some rel. rock structure
20	6.1				Weathered Rome Formation

Terminate Boring @ 20

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-698

Date Started: 12/8/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 1

Date Completed: 12/8/10 **Driller:** Jeremy Triplett **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	pale olive (5Y 6/4) silty SAND (SM), moist w/ some SA-SR gr. ALLUVIUM
2	0.6	2.5'/5.0'	WT @ 6 ft		
3	0.9				
4	1.2				
5	1.5	5'-10'		SC	SAA except wet, clayey SAND (SC)
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				light olive brown (2.5Y 5/6) fat CLAY w/ some ang. gr. sized shale fragments, wet, weathered
10	3.1	10'-15'		CH	Rome Formation, some relict rock structure
11	3.4		Residuum		
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				terminate Boring @ 15'
16	4.9				
17	5.2				
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-699

Date Started: 12/1/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 12/1/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SC	grayish brown (10YR 5/2), clayey SAND (SC) moist, some SA-SR gravel ALLUVIUM gr up to 4" Ø
2	0.6	4.5'/5.0'			
3	0.9		WT@2'		
4	1.2				
5	1.5				
6	1.8	5'-10'		MH	dark grayish brown (10YR 5/2), sandy elastic SILT, wet, some organics little SA-SR gravel
7	2.1	5'/5'			7.5'
8	2.4			SC	light olive gray (5Y 6/2) clayey SAND SC, wet, some SA-SR
9	2.7				gravel up to 4" Ø,
10	3.1				
11	3.4	10-15'			SAA except saturated
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'			
17	5.2	5'/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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MACTEC Project 9120-07-1235

BORING NO. B-699

Date Started: 12/1/10 **Drilling Contractor:** BART LONGYEAR **Page** 2 **of** 2

Date Completed: 12/1/10 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'			SAA
21	6.4		Alluvium	SC	
22	6.7	5'/5'			brownish yellow (10YR 6/6) fat CLAY (CH) w/
					some ang. shale, weathered Rome Fm
23	7.0		Residuum	CH	wet
24	7.3				Complete Sampling to 6 interval
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-700

Date Started: 12/1/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2
Date Completed: 12/1/10 **Driller:** JEREMY TRICPKE **Survey Unit:** 18
Logged By: Rodney Cla **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-15'
1	0.3		Alluvium	CH	brownish yellow (10YR 6/6), fat CLAY w/ some SA-SR gravel, few roots, moist
2	0.6		▽	OL	15'-16' black 10YR 2/1 organic SILT, wet trace gr, some organics, few fine sand
3	0.9	5'/5'	WT@2' bgs		RMC 12/1/10
4	1.2				
5	1.5				
6	1.8	5'-10'			
7	2.1	2'/5'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10'-15'		CH	light brownish gray (10YR 6/2) fat CLAY (CH) moist/wet, some fine sand, trace SA-SR gravel.
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15'-20'		SC	light brownish gray (10YR 6/2) clayey SAND (SC) w/ some SA-SR gravel, wet/saturated gr up to 4" Ø
17	5.2	5'/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey
MACTEC Project 9120-07-1235

BORING NO. B-700

Date Started: 12/1/10 **Drilling Contractor:** BART LONGYEAR **Page** 2 **of** 2
Date Completed: 12/1/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18
Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
21	6.4	20'-25'	Alluvium	SC	SAA
22	6.7	5'/5'			
23	7.0				
24	7.3				
25	7.6				
26	7.9	25'-30'			
27	8.2	5'/5'			27'-29.8' bgs grayish brown (10YR 5/2) sandy fat CLAY, few SA-SR gravel, wet
28	8.5			CH	little slate fragments (angular)
29	8.8				
30	9.2		29.8' bgs		
31	9.5	30'-35'	Residuum	CH	brownish yellow (10YR 6/6), fat CLAY (CH), moist, some ang. gravel (slate) some relict structure, wet
32	9.8	3'/5'	Wec		Weathered Rome Fm.
33	10.1				Sample J interval to appx 33' bgs
34	10.4	2' of fall in			
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-701

Date Started: 12/2/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 12/2/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5'	Alluvium	SM	light yellowish brown (10YR 6/4) silty f-c SAND, moist, some SA-SR gr, gr. up to 3" Ø
2	0.6	5'/5'	▽ WT@2.6'		
3	0.9				
4	1.2				brown 10YR 5/3 fat CLAY lense from 4.3'-5.0'
5	1.5			CH	
6	1.8	5'-10'		SC	brownish yellow (10YR 6/6), clayey f-c SAND, (SC), wet, some SA-SR gravel gr. up to 3" Ø
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1	10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6	15'-20'			~~strong brown (7.5YR 5/6) fat CLAY (CH) moist, some angr shale frag & SR gr~~
16	4.9				RMC 12/2/10
17	5.2	5'/5'			
18	5.5				
19	5.8				RMC 12/2/10
20	6.1				~~Terminate Boring @ 20.0'~~

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-701

Date Started: 12/2/10 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 12/2/10 **Driller:** JEREMY TRIEPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20-25'			Strong brown (7.5YR 5/6) fat CLAY (CH)
21	6.4		Alluvium	CH	Some arg shale frag, & some SR gr
					alluvium ~~wet~~ Rev 12/3/10 moist
22	6.7	5'/5			
23	7.0				yellowish red (5YR 5/6) mod.
			Residuum	GW	Shale/Rome Formation, indurated,
24	7.3				fissle, platy laminations
25	7.6				Terminate Boring @ 25'
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-702

Date Started: 11/19/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/19/10 **Driller:** Jeremy Terpke **Survey Unit:** 16

Logged By: Rodney Clark **Equipment:** Minisonic Track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-3.5'
1	0.3		Alluvium	SM	(brown 7.5YR 5/3), silty f-c SAND w/some SA-SR gr (SM), moist, alluvium, prim. quartz sand
2	0.6	5'/5'			
3	0.9				3.5' → 5.0' SAA except pale yellow 2.5Y 7/3 & wet
4	1.2				
5	1.5				5'-19' strong brown 7.5YR 5/6 clayey f-c SAND, SC, w/ some SA-SR gr, alluvium, gr. up to 4" @, wet
6	1.8	5'-10'		SC	
7	2.1				
		4'/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2	4.5'/5.0'			19'-20'
18	5.5				brownish yellow (10YR 6/6), fat CLAY w/ some ang. shale fragments, laminated, weathered Rome Fm, Residuum, some relict rock structure
19	5.8		Residuum	CH	
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-703

Date Started: 11/19/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/19/10 **Driller:** Jeremy Tripko **Survey Unit:** 18

Logged By: Rodney Cal **Equipment:** MiniSonic track **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'→4.0'
1	0.3		Alluvium	SM	light yellowish brown (2.5Y 6/4), silty f-c SAND
					some SA-SR gr., moist, ALLUVIUM
2	0.6	5'/5'			
					4.0'→10.0' strong brown (7.5YR 5/6), clayey
3	0.9				f-c SAND, SC, moist, some SA-SR
4	1.2				gravel, ALLUVIUM, gr. is up to 4" ø
				SC	SAA except wet @ 5'
5	1.5				
		5'-10'			
6	1.8				
7	2.1	5.0/5.0			
8	2.4				
9	2.7				
10	3.1				reddish yellow (7.5YR 6/8), silty
		10'-15'			f-c SAND w/some SR-SA gravel
11	3.4			SM	wet, gr. up to 4" ø
12	3.7	5'/5'			
13	4.0				
14	4.3				
15	4.6				
		15'-20'			SAA w/ clayey SAND (SC), some of
16	4.9			SC	gr. is A shale frag. mixed w/
		5'/5'			SR-gr. alluvium
17	5.2				
			Top of Rome Fm.		Strong brown (7.5YR 5/6) mottled w/ pinkish
18	5.5			CH	gray (7.5YR 5/2), fat CLAY, CH, few
19	5.8				ang. shale fragments, some relict
					rock structure (eg. laminations)
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-704

Date Started: 11/18/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 11/18/10 **Driller:** BOART LONGYEAR **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** 780

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-5'
1	0.3		Alluvial	SC	(pale olive 5Y 6/3), clayey SAND w/ gravel, moist to wet, trace roots 0'-1', gr. is SR-WR
2	0.6	3.0'/5.0'			alluvium (quartzite/gneiss) sand f-c
3	0.9		▽		
4	1.2		W.L. @ 3' bgs		
5	1.5				5'-20'
		5'-10'			light yellowish brown (2.5Y 6/3), clayey SAND
6	1.8				(SC), sand f-c, w/ some SR-WR gr.
7	2.1	5.0'/5.0'			alluvium, gr. up to 3" ⌀
8	2.4				wet to saturated
9	2.7				
10	3.1				
		10-15'			
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				
		15-20'			
16	4.9				
17	5.2	4.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-704

Date Started: 11/18/10 **Drilling Contractor:** BOART LONGYEAR **Page** 2 **of** 2

Date Completed: 11/18/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'	Alluvial	SC	20'-25' (olive 5Y 5/4), clayey SAND (SC), saturated, some subR to WR gr. alluvium
21	6.4				
22	6.7	4.5'/5.0'			Sand is f-c,
23	7.0				25-27.5' SAA except gr. is A-SR
					Some gr. is a shale frag. mixed w/alluvium
24	7.3				
					27.5-30
25	7.6				yellowish brown 10YR 5/8 to strong brown
		25'-30'		SC	(7.5YR 5/6), fat CLAY (CH) w/gravel,
26	7.9				gr. is ang. laminated shale frag.
27	8.2				high plasticity, weathered
			27.5'		Rome Fm.
28	8.5		Weathered Rome Fm	CH	Collect I interval in Rome Fm'
29	8.8				
30	9.2				Terminate Boring @ 30.0'
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-705

Date Started: 11/17/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/17/10 **Driller:** JEREMY TRIPKIE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINI SONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0.0'-2.5'
1	0.3		Alluvium	CH	light yellowish brown (2.5Y 6/4) ~~fat~~ CLAY w/sand, some SR-WR gravel, sand f-c moist
2	0.6	3.0'/5.0'			
3	0.9		WT 3.5'		2.5'-10.0' light yellowish brown (2.5Y 6/3) clayey
4	1.2			SC	SAND w/some WR + SR gr. up to 4" @
5	1.5	5'-10'			Same as above except wet
6	1.8				
7	2.1	5.0/5.0			
8	2.4				
9	2.7				
10	3.1				10.0'-
11	3.4	10'-15'		CH	pale yellow (2.5Y 7/4), fat CLAY w/gravel, wet, gravel is A-SR # up to 3" @
12	3.7	4.5'/5.0'			Some shale fragments w/SR quartzite as gravel, ALLUVIUM
13	4.0				13'-14'
				GW	large cobble 1.0' @ (quartzite)
14	4.3				14'-16' pale yellow (2.5Y 7/4) fat CLAY wet
15	4.6			CH	w/aug. gravel (e.g. shale fragments) w/some SR alluvium
		15'-20'			
16	4.9				16'-20' Weathered Rome Formation
17	5.2	5.0'/5.0'		GW	Angular shale fragments, some clay (GW)
18	5.5				encountered dolomite @ 20.0' (in bit)
19	5.8				
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-706

Date Started: 11/17/10 **Drilling Contractor:** Boart Longyear **Page** 1 **of** ____

Date Completed: 11/17/10 **Driller:** Jeremy Triphey **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minsonic Truck **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0'-5' 5.0/5.0	Alluvium		0.0'-3.5' (olive yellow 2.5Y 6/6) silty gr. SAND w/ gravel
2	0.6			SM	gr. is SR-WR, alluvium, moist
					Sand is f-c, RMC 11/17/10
3	0.9	100%			3.5' RMC 11/17/10
4	1.2				light gray 10YR 7/2 (mottled w/ brownish
				CH	yellow 10YR 6/8) fat CLAY w/
5	1.5	5'-10'	▽		sand (CH) little few gr. clay lense
6	1.8	5.0/5.0'		SC	5'-18.5' brownish yellow (10YR 6/8) clayey SAND w/ gravel (SC) wet/saturated
7	2.1				little clay lenses, gr. is SR-WR
8	2.4	100%			# up to 3" in ⊖
9	2.7				
10	3.1	10'-15'			
11	3.4	5.0/5.0'			
12	3.7				
13	4.0	100%			
14	4.3				
15	4.6	15'-20'			
16	4.9	5.0/5.0'			
17	5.2				
18	5.5	100%			18.5' weathered rome fm, clayey GRAVEL
19	5.8		Residuum	GP	gravel is ang. laminated Shale fragment
20	6.1				Terminate Boring @ 20'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-707

Date Started: 11/18/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 11/18/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-4'
1	0.3		Alluvium	SC	light bluish gray (GLEY 2 7/1), clayey SAND
2	0.6	5'/5			(SC), f-c sand w/some SA-SR
					gravel, ALLUVIUM, moist,
3	0.9				4'-5
					strong brown (7.5YR 5/6), silty SAND
4	1.2				(SM), little gr. SR
				SM	5'-23'
5	1.5				strong brown (7.5YR 5/6), clayey SAND (SC)
		5'-10'		SC	gr. is SR-SA alluvium, up to 4"
6	1.8				in ⊖, wet
7	2.1	5'/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
		4.5'/5'			
12	3.7				
13	4.0				
14	4.3				
15	4.6				
		15'-20'			
16	4.9				
17	5.2	5'/5'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-707

Date Started: 11/18/10 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 11/18/10 **Driller:** Jeremy Tripke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		~~20'-25'~~			
21	6.4		Alluvium		
22	6.7	5'/5'			23'-25'
23	7.0				yellowish brown (10YR 5/6), fat CLAY (CH) wet, some ang. laminated shale
24	7.3		Residuum		fragments, Weathere
25	7.6				Terminate. Boring @ 25
26	7.9				
27	8.2				
28	8.5				
29	8.8				
30	9.2				
31	9.5				
32	9.8				
33	10.1				
34	10.4				
35	10.7				
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-708

Date Started: 11/18/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 1

Date Completed: 11/18/10 **Driller:** JEREMY TRIPKE **Survey Unit:** 18

Logged By: Rodney Ch. **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	~~Alluvium~~	SC	olive (5Y 5/4), clayey SAND w/ some SR-WR
1	0.3				gravel (SC), moist to wet @ 3', trace roots
2	0.6	4/5'			0'-1' bgs, ALLUVIUM, gr is up to 4" @
					sand is f-c
3	0.9		▽		
			WT @		
4	1.2		3' bgs		
5	1.5				Same as above except
		5'-10'			(olive yellow 2.5Y 6/4) & wet
6	1.8				
7	2.1	5/5'			
8	2.4				
9	2.7				
10	3.1				
		10'-15			same as above
11	3.4				
		4/5'			
12	3.7				
13	4.0				
14	4.3				
15	4.6				
		15'-20			
16	4.9				
		5/5'			
17	5.2				
					reddish yellow (7.5YR 6/8) Fat CLAY
18	5.5		Wred		CH, moist, high plasticity, some relict
			Rome		rock structure, some ang. gr. sized
19	5.8		Fm.		shale fragments, weathered
					Rome Fm.
20	6.1				Terminate Boring @ 20.0'

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-709

Date Started: 11/17/10 **Drilling Contractor:** BOART LONGYEAR **Page** 1 **of** 2

Date Completed: 11/17/10 **Driller:** JEREMY TRIPKIE **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** MINISONIC TRACK **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	0.0'-5.0' DESCRIPTION
		0'-5'	Alluvium	SM	pale yellow to yellow 2.5Y 8/3 to 2.5Y 7/8 well graded, silty SAND w/ gravel (SM), moist, gr. is SR to WR ∅ up to 2" ⊖, sand is f-c
1	0.3				
2	0.6	80%	WT 3' bgs		
3	0.9	100%	▽		Alluvium
4	1.2	5.0'/5.0'			5.0 -
5	1.5				except SAA (brownish yellow 10YR 6/8) & wet
6	1.8	5'-10'			
7	2.1				
8	2.4	100%			
9	2.7	5.0'/5.0'			
10	3.1				SAA except (yellowish brown 10YR 5/8)
11	3.4	10'-15'			
12	3.7	100%			
13	4.0	5.0'/5.0'			1.5' ⊖ cobble/boulder (quartzite) from 13.5'-15.0'
14	4.3				
15	4.6	15'-20'			yellowish brown (10YR 5/8) silty SAND, wet/saturated, some gravel mostly f-m sand
16	4.9				Alluvium
17	5.2	3.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-709

Date Started:	11/17/10	**Drilling Contractor:**	BOART LONGYEAR	**Page**	2 of 2
Date Completed:	11/17/10	**Driller:**	JEREMY TRIPKEX	**Survey Unit:**	18
Logged By:	Rodney Clark	**Equipment:**	MINI SONIC TRACK	**Elevation:**	TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4		Alluvium	SM	SAA
		50'/5.0'			
22	6.7				
23	~~7.0~~	100%			increase in cobble/gravel sr-wr upto 3" @ 23'
24	7.3				
25	7.6				
		25'-30'			
26	7.9				
27	8.2	5.0'/5.0'			Same as above except
28	8.5				- clayey SAND (SC) @ 28.0'
				SC	
29	8.8				
30	9.2				
		30'-35			
31	9.5				
32	9.8	5.0'/5.0'			
33	10.1	100%			Terminate sampling @ 33' (10.1 meter) yellowish brown (10YR 5/8)
34	10.4				- gravelly, lean CLAY, wet/saturated, gravel is angular shale fragments
			Top of Rome Fm		
35	10.7				RESIDUUM Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-N672

Date Started: 6/8/11 **Drilling Contractor:** Bart Longyear **Page** 1 **of** 1

Date Completed: 6/8/11 **Driller:** Jeremy Triplett **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Geoprobe **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium	CH	0'-1.5' light yellowish brown (2.5YR 6/4) f-c Sandy fat CLAY, moist, laminated
1	0.3				
2	0.6	4.8'/5.0'	WT @ 20'	SM	1.5'-5.0' light yellowish brown, clayey silty f-c SAND, little SR gravel gr. up to 2" in ⌀, moist, wetter 3.5' bgs
3	0.9				
4	1.2				
5	1.5	5'-10'		SC	5.0'— brownish yellow (10YR 6/6), clayey f-c SAND, some SA-SR gravel wet, ALLUVIUM
6	1.8				
7	2.1	5.0'/5.0'			
8	2.4				
9	2.7				
10	3.1	10'-15'			increase in gravel, some SR gr up to 4" in ⌀
11	3.4				
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6	15'-20'		SM	15'-35' (2.5YR 5/6) strong brown silty f-c SAND, wet, gr. is SA-SR, some few gr., gr. is up to 2" in ⌀
16	4.9				
17	5.2	5.0'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-N672

Date Started: 6/8/11 **Drilling Contractor:** Brent Langgar **Page** 2 **of** 2

Date Completed: 6/8/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Geoprobe **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4				SAME AS ABOVE
22	6.7	5.0'/5.0'			
23	7.0				
24	7.3				
25	7.6				
		25'-30'			
26	7.9				
27	8.2	4.8'/5.0'	Alluvium	SM	
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8	4.7'/5.0'			
33	10.1				Sample to 33'
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-E672

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
1	0.3	0.0'-5.0'	Alluvium	SW/SW	0.0'-5.0' brownish yellow (10YR 6/6) silty, fine-coarse SAND (SM/SW) well-graded, wet, some SA-SR gravel
2	0.6	4.0'/5.0	▽		
3	0.9				
4	1.2				
5	1.5				5.0'-20.0' yellowish brown (10YR 5/6), clayey SC-fc SAND w/some SA-SR gravel, wet, gr up to 3" in ø
6	1.8	5.0'-10.0'			
7	2.1	4.5'/5.0'			
8	2.4				
9	2.7				
10	3.1				
11	3.4	10.0'-15.0'			
12	3.7	5.0'/5.0'			
13	4.0				
14	4.3				
15	4.6				
16	4.9	15.0'-20.0'			
17	5.2	4.5'/5.0'			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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NFS File Classification: DCM-23-05-02

SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-E672

Date Started: 6/9/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/9/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Mini Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			20'-35'
21	6.4		Alluvium	SW	yellowish brown (10YR 5/6) well graded
22	6.7	4.5'/5.0'			gravelly f-c SAND, wet, gr is
					SA-SR, ≠ up to 3" in Di.
23	7.0				
24	7.3				
25	7.6				
		25'-30'			
26	7.9				
27	8.2	5.0'/5.0'			
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8	4.5'/5.0'			
33	10.1				Sample to 33'
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-W672

Date Started: 6/10/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/10/11 **Driller:** Jeremy Triephe **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Glinsonic **Elevation:** TBD

Conduct SWMU Sampling @ B-W672

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'			0'-6'
1	0.3		Alluvium	SC	yellowish brown (10YR 5/6), clayey f-c SAND, w/some SA-SR gravel, wet @ 2', gr up to 3" in ⊖, Alluvium
2	0.6	4.5/5.0	▽		
3	0.9		WT @ 22'		
4	1.2				
5	1.5	5'-10'			
6	1.8			GW	6'-10' brownish yellow (10YR 6/6) well graded GRAVEL (GW) wet, some f-c sand.
7	2.1	4.8/5.0			
8	2.4				
9	2.7				
10	3.1	10'-15'			10'-35' brownish yellow (10YR 6/6) clayey f-c SAND w/some SA-SR, gr up to 3" in ⊖, well graded Alluvium
11	3.4			SC	
12	3.7	4.0/5.0			
13	4.0				
14	4.3				
15	4.6	15'-20'			
16	4.9				
17	5.2	4.5/5.0			
18	5.5				
19	5.8				
20	6.1				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-W672

Date Started: 6/10/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/10/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Mini-Sonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'			
21	6.4		Alluvium	SC	
22	6.7				
23	7.0	4.7/5.0			
24	7.3				
25	7.6	25'-30			
26	7.9				
27	8.2				
28	8.5	4.2'/5.0			
29	8.8				
30	9.2	30'-35			
31	9.5				
32	9.8				
33	10.1	3.9'/5.0			Terminate sampling @ 33
34	10.4				
35	10.7				Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered

Strata/Unit = deposition/formation (e.g., fill, alluvial, floodplain, residuum, bedrock, etc.)

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-S672

Date Started: 6/10/11 **Drilling Contractor:** Boart Longyear **Page** 1 **of** 2

Date Completed: 6/10/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		0'-5'	Alluvium		light olive brown (2.5x 6/3), silty, f-c SAND,
1	0.3			SM/	(SM) moist, some SA-SR gravel up to 3"
2	0.6	2.5/5.0	▽	SW	in θ, well graded
3	0.9		W.T. @ 2.0' bgs		
4	1.2				
5	1.5				brownish yellow (10YR 6/6), clayey f-c
		5'-10'			SAND, saturated, some SA-SR
6	1.8			SC	gravel, ALLUVIUM
7	2.1				
		5.0/5.0			
8	2.4				
9	2.7				
10	3.1				
		10'-15'			
11	3.4				
12	3.7	3.8/5.0			
13	4.0				
14	4.3				
15	4.6				16'-18' brownish yellow
		15'-20'			well graded GRAVEL (GW), saturated
16	4.9				
17	5.2	4.7/5.0		SW	
18	5.6				brownish yellow, well graded
19	5.8			SW	SAND w/some gravel, few times
					wet.
20	6.1				

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SOIL BORING RECORD

NFS Subsurface Soil Characterization and Final Status Survey

MACTEC Project 9120-07-1235

BORING NO. B-5762

Date Started: 6/10/11 **Drilling Contractor:** Boart Longyear **Page** 2 **of** 2

Date Completed: 6/10/11 **Driller:** Jeremy Triepke **Survey Unit:** 18

Logged By: Rodney Clark **Equipment:** Minisonic **Elevation:** TBD

DEPTH (ft)	DEPTH (m)	RUN / RECOVERY	STRATA / UNIT	USCS	DESCRIPTION
		20'-25'	ALLUVIUM	SC	20' brownish yellow, clayey, f-c SAND (SC) wet, some SA-SR gravel, ALLUVIUM
21	6.4				
22	6.7	50'/50			some gravel up to 4" in ⊘
23	7.0				
24	7.3				
25	7.6				
		25'-30			
26	7.9				
27	8.2	45'/50'			
28	8.5				
29	8.8				
30	9.2				
		30'-35'			
31	9.5				
32	9.8	25'/50'			
33	10.1				Terminate sampling @ appx 33'
34	10.4				
35	10.7				← Terminate Boring @ 35'
36	11.0				
37	11.3				
38	11.6				
39	11.9				
40	12.2				

Run = Drill Run Interval; Recovery (%) = Run Interval / Amount Recovered
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