Appendix D

Gross-Alpha and Gross-Beta
Radiological-Screening Results and Borehole Logs
(on CD included with this document)

Table D-1
Area 1 Category I Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610206	RE49-10-6109	12/11/2009	1535	0	6	9.75	37.80
49-610206	RE49-10-6110	12/11/2009	1538	6	18	12.03	18.91
49-610207	RE49-10-6111	12/11/2009	856	0	6	2.34	31.74
49-610207	RE49-10-6112	12/11/2009	900	6	18	10.94	19.62
49-610208	RE49-10-6113	12/11/2009	905	0	6	9.16	25.68
49-610208	RE49-10-6114	12/11/2009	908	6	18	–2.24	14.12
49-610209	RE49-10-6115	12/10/2009	1411	0	6	14.47	19.77
49-610209	RE49-10-6116	12/10/2009	1416	6	18	9.32	20.00
49-610210	RE49-10-6117	12/10/2009	1428	0	6	3.57	28.15
49-610210	RE49-10-6118	12/10/2009	1434	6	18	0.65	16.50
49-610211	RE49-10-6119	12/10/2009	1128	0	6	3.96	17.41
49-610211	RE49-10-6120	12/10/2009	1130	6	18	7.69	28.31
49-610212	RE49-10-6121	12/10/2009	1135	0	6	–0.48	23.63
49-610212	RE49-10-6122	12/10/2009	1138	6	18	7.56	19.88
49-610213	RE49-10-6123	12/10/2009	1148	0	6	7.78	23.51
49-610213	RE49-10-6124	12/10/2009	1150	6	18	6.58	21.74

Table D-2
Area 1 Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610214	RE49-10-6125	12/11/2009	1445	0	6	5.93	22.80
49-610214	RE49-10-6126	12/11/2009	1450	6	18	11.30	19.27
49-610215	RE49-10-6127	12/11/2009	1026	0	6	10.36	19.29
49-610215	RE49-10-6128	12/11/2009	1030	6	18	6.84	12.24
49-610216	RE49-10-6129	12/11/2009	1040	0	6	9.41	33.02
49-610216	RE49-10-6130	12/11/2009	1045	6	18	10.16	16.13
49-610217	RE49-10-6131	12/11/2009	955	0	6	6.19	20.31
49-610217	RE49-10-6132	12/11/2009	1000	6	18	9.63	18.87
49-610218	RE49-10-6133	12/11/2009	1520	0	6	7.39	27.64
49-610218	RE49-10-6134	12/11/2009	1525	6	18	4.98	18.23
49-610219	RE49-10-6135	12/11/2009	915	0	6	–0.11	18.86
49-610219	RE49-10-6136	12/11/2009	920	6	18	3.58	27.02
49-610220	RE49-10-6137	12/10/2009	1520	0	6	9.71	18.98
49-610220	RE49-10-6138	12/10/2009	1525	6	18	5.73	13.35
49-610221	RE49-10-6139	12/14/2009	908	0	6	–1.92	31.31
49-610221	RE49-10-6140	12/14/2009	911	6	18	8.67	19.29
49-610222	RE49-10-6141	12/10/2009	1345	0	6	7.50	19.00
49-610222	RE49-10-6142	12/10/2009	1352	6	18	10.89	23.46
49-610223	RE49-10-6143	12/14/2009	959	0	6	8.26	25.95
49-610223	RE49-10-6144	12/14/2009	1003	6	18	7.64	33.45
49-610224	RE49-10-6145	12/4/2009	1427	0	6	9.71	29.26
49-610224	RE49-10-6146	12/4/2009	1429	6	18	7.48	32.20
49-610225	RE49-10-6147	12/4/2009	1459	0	6	6.76	30.62
49-610225	RE49-10-6148	12/4/2009	1501	6	18	1.90	24.07

Table D-3
Area 1 Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610234	RE49-10-6169	12/4/2009	920	0	6	14.43	20.90
49-610234	RE49-10-6170	12/4/2009	925	6	18	1.14	3.56
49-610235	RE49-10-6177	12/11/2009	1440	0	6	5.14	21.11
49-610235	RE49-10-6178	12/11/2009	1445	6	18	8.28	24.80
49-610236	RE49-10-6179	12/11/2009	1455	0	6	2.27	22.12
49-610236	RE49-10-6180	12/11/2009	1500	6	18	15.33	21.94
49-610237	RE49-10-6181	12/11/2009	1030	0	6	18.13	24.34
49-610237	RE49-10-6182	12/11/2009	1035	6	18	3.42	28.32
49-610238	RE49-10-6183	12/11/2009	1035	0	6	2.42	29.51
49-610238	RE49-10-6184	12/11/2009	1040	6	18	4.56	15.09
49-610239	RE49-10-6185	12/11/2009	1045	0	6	4.87	25.44
49-610239	RE49-10-6186	12/11/2009	1050	6	18	12.82	23.35
49-610240	RE49-10-6187	12/11/2009	1050	0	6	6.44	17.99
49-610240	RE49-10-6188	12/11/2009	1055	6	18	20.14	16.92
49-610241	RE49-10-6189	12/11/2009	1505	0	6	12.08	22.90
49-610241	RE49-10-6190	12/11/2009	1510	6	18	0.60	18.12
49-610242	RE49-10-6191	12/11/2009	1510	0	6	7.85	21.10
49-610242	RE49-10-6192	12/11/2009	1515	6	18	3.62	26.66
49-610243	RE49-10-6193	12/11/2009	1515	0	6	24.44	42.17
49-610243	RE49-10-6194	12/11/2009	1520	6	18	8.62	16.23
49-610244	RE49-10-6195	12/11/2009	940	0	6	8.64	33.89
49-610244	RE49-10-6196	12/11/2009	945	6	18	19.27	25.23
49-610245	RE49-10-6197	12/11/2009	950	0	6	–0.95	20.80
49-610245	RE49-10-6198	12/11/2009	955	6	18	1.92	13.87
49-610246	RE49-10-6199	12/11/2009	1000	0	6	17.73	22.08
49-610246	RE49-10-6200	12/11/2009	1005	6	18	–3.82	28.55
49-610247	RE49-10-6201	12/11/2009	1005	0	6	–3.07	42.80
49-610247	RE49-10-6202	12/11/2009	1010	6	18	10.08	28.71
49-610248	RE49-10-6203	12/11/2009	1015	0	6	2.42	34.13
49-610248	RE49-10-6204	12/11/2009	1020	6	18	7.85	26.39
49-610249	RE49-10-6205	12/11/2009	1525	0	6	5.85	25.62
49-610249	RE49-10-6206	12/11/2009	1530	6	18	1.76	27.02
49-610250	RE49-10-6207	12/11/2009	853	0	6	8.08	32.56
49-610250	RE49-10-6208	12/11/2009	857	6	18	5.83	22.09
49-610251	RE49-10-6209	12/11/2009	903	0	6	7.94	39.12
49-610251	RE49-10-6210	12/11/2009	905	6	18	5.73	17.73

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610252	RE49-10-6211	12/11/2009	910	0	6	5.44	33.65
49-610252	RE49-10-6212	12/11/2009	915	6	18	–1.63	29.02
49-610253	RE49-10-6213	12/14/2009	841	0	6	8.78	27.60
49-610253	RE49-10-6214	12/14/2009	846	6	18	4.11	14.56
49-610254	RE49-10-6215	12/14/2009	850	0	6	12.46	16.81
49-610254	RE49-10-6216	12/14/2009	855	6	18	6.70	18.88
49-610255	RE49-10-6217	12/14/2009	856	0	6	3.49	19.65
49-610255	RE49-10-6218	12/14/2009	859	6	18	11.30	16.61
49-610256	RE49-10-6219	12/10/2009	1530	0	6	7.93	18.72
49-610256	RE49-10-6220	12/10/2009	1535	6	18	3.40	22.99
49-610257	RE49-10-6221	12/10/2009	1535	0	6	3.66	22.94
49-610257	RE49-10-6222	12/10/2009	1540	6	18	11.93	22.82
49-610258	RE49-10-6223	12/10/2009	1545	0	6	16.42	33.24
49-610258	RE49-10-6224	12/10/2009	1550	6	18	0.52	32.47
49-610259	RE49-10-6225	12/10/2009	1555	0	6	5.73	23.69
49-610259	RE49-10-6226	12/10/2009	1600	6	18	13.91	24.56
49-610260	RE49-10-6227	12/10/2009	1556	0	6	13.95	24.68
49-610260	RE49-10-6228	12/10/2009	1559	6	18	17.01	25.59
49-610261	RE49-10-6229	12/14/2009	913	0	6	16.28	26.93
49-610261	RE49-10-6230	12/14/2009	916	6	18	1.61	20.58
49-610262	RE49-10-6231	12/10/2009	1400	0	6	6.37	19.34
49-610262	RE49-10-6232	12/10/2009	1414	6	18	6.53	17.81
49-610263	RE49-10-6233	12/10/2009	1428	0	6	3.73	24.86
49-610263	RE49-10-6234	12/10/2009	1430	6	18	7.62	21.04
49-610264	RE49-10-6235	12/10/2009	1445	0	6	0.34	25.99
49-610264	RE49-10-6236	12/10/2009	1450	6	18	12.66	30.51
49-610265	RE49-10-6237	12/10/2009	1446	0	6	5.29	25.22
49-610265	RE49-10-6238	12/10/2009	1449	6	18	1.87	27.64
49-610266	RE49-10-6239	12/10/2009	1455	0	6	15.92	35.12
49-610266	RE49-10-6240	12/10/2009	1500	6	18	11.34	23.43
49-610267	RE49-10-6241	12/14/2009	930	0	6	9.59	35.63
49-610267	RE49-10-6242	12/14/2009	934	6	18	4.90	19.03
49-610268	RE49-10-6243	12/14/2009	934	0	6	1.90	28.68
49-610268	RE49-10-6244	12/14/2009	937	6	18	14.09	15.63
49-610269	RE49-10-6245	12/10/2009	1149	0	6	3.60	27.29
49-610269	RE49-10-6246	12/10/2009	1152	6	18	9.81	20.18
49-610270	RE49-10-6247	12/10/2009	1345	0	6	4.18	17.47
49-610270	RE49-10-6248	12/10/2009	1350	6	18	12.95	19.48

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610271	RE49-10-6249	12/14/2009	955	0	6	11.06	22.36
49-610271	RE49-10-6250	12/14/2009	958	6	18	5.65	29.73
49-610272	RE49-10-6251	12/10/2009	1005	0	6	8.01	37.51
49-610272	RE49-10-6252	12/10/2009	1008	6	18	8.37	31.99
49-610273	RE49-10-6253	12/10/2009	1006	0	6	4.94	19.84
49-610273	RE49-10-6254	12/10/2009	1009	6	18	–0.25	27.05
49-610274	RE49-10-6255	12/10/2009	1030	0	6	0.35	23.48
49-610274	RE49-10-6256	12/10/2009	1036	6	18	0.69	13.00
49-610275	RE49-10-6257	12/10/2009	1058	0	6	3.58	23.10
49-610275	RE49-10-6258	12/10/2009	1102	6	18	–1.47	13.02
49-610276	RE49-10-6259	12/10/2009	1059	0	6	13.67	30.61
49-610276	RE49-10-6260	12/10/2009	1104	6	18	5.24	19.28
49-610277	RE49-10-6261	12/10/2009	1115	0	6	15.25	19.36
49-610277	RE49-10-6262	12/10/2009	1118	6	18	3.57	14.62
49-610278	RE49-10-6263	12/4/2009	1125	0	6	11.98	33.47
49-610278	RE49-10-6264	12/4/2009	1130	6	18	12.54	35.63
49-610279	RE49-10-6265	12/4/2009	1110	0	6	6.39	22.71
49-610279	RE49-10-6266	12/4/2009	1113	6	18	3.14	24.77
49-610280	RE49-10-6267	12/4/2009	1420	0	6	4.13	33.22
49-610280	RE49-10-6268	12/4/2009	1426	6	18	7.78	41.09
49-610281	RE49-10-6269	12/4/2009	1433	0	6	14.43	20.90
49-610281	RE49-10-6270	12/4/2009	1437	6	18	7.21	34.44
49-610282	RE49-10-6271	12/4/2009	1453	0	6	3.96	23.48
49-610282	RE49-10-6272	12/4/2009	1456	6	18	5.77	27.79

Table D-4
Area 1 Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610226	RE49-10-6153	12/11/2009	1400	0	6	11.36	16.46
49-610226	RE49-10-6154	12/11/2009	1404	6	18	3.72	15.82
49-610288	RE49-10-6286	12/11/2009	1415	0	6	5.69	29.82
49-610288	RE49-10-6287	12/11/2009	1420	6	18	5.24	19.31
49-610227	RE49-10-6155	12/11/2009	1117	0	6	2.17	17.60
49-610227	RE49-10-6156	12/11/2009	1121	6	18	12.86	27.32
49-610228	RE49-10-6157	12/14/2009	835	0	6	22.55	30.77
49-610228	RE49-10-6158	12/14/2009	839	6	18	3.55	21.31
49-610229	RE49-10-6159	12/10/2009	1510	0	6	6.50	27.99
49-610229	RE49-10-6160	12/10/2009	1515	6	18	6.87	25.59
49-610230	RE49-10-6161	12/4/2009	1507	0	6	0.04	34.00
49-610230	RE49-10-6162	12/4/2009	1509	6	18	–0.09	31.53
49-610231	RE49-10-6163	12/4/2009	1107	0	6	5.22	35.39
49-610231	RE49-10-6164	12/4/2009	1115	6	18	13.91	23.33
49-610232	RE49-10-6165	12/2/2009	1522	0	6	8.16	32.95
49-610232	RE49-10-6166	12/2/2009	1527	6	18	11.56	31.97
49-610233	RE49-10-6167	12/4/2009	935	0	6	7.26	32.65
49-610233	RE49-10-6168	12/4/2009	939	6	18	9.14	23.18

Table D-5
Area 1 Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610283	RE49-10-6276	12/11/2009	1345	0	6	0.17	24.41
49-610283	RE49-10-6277	12/11/2009	1350	6	18	0.57	17.85
49-610284	RE49-10-6278	12/11/2009	1347	0	6	1.50	19.76
49-610284	RE49-10-6279	12/11/2009	1350	6	18	2.79	24.39
49-610285	RE49-10-6280	12/11/2009	1350	0	6	8.34	25.59
49-610285	RE49-10-6281	12/11/2009	1355	6	18	3.50	26.58
49-610286	RE49-10-6282	12/11/2009	1125	0	6	5.43	17.23
49-610286	RE49-10-6283	12/11/2009	1130	6	18	9.80	21.35
49-610287	RE49-10-6284	12/11/2009	1135	0	6	2.25	27.12
49-610287	RE49-10-6285	12/11/2009	1140	6	18	10.35	17.52
49-610289	RE49-10-6288	12/11/2009	1420	0	6	0.32	21.78

Table D-5 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610289	RE49-10-6289	12/11/2009	1425	6	18	4.78	30.62
49-610290	RE49-10-6290	12/11/2009	1425	0	6	4.98	30.71
49-610290	RE49-10-6291	12/11/2009	1430	6	18	5.95	20.04
49-610291	RE49-10-6292	12/11/2009	1410	0	6	4.24	22.76
49-610291	RE49-10-6293	12/11/2009	1415	6	18	13.85	23.34
49-610292	RE49-10-6294	12/11/2009	1112	0	6	1.81	20.38
49-610292	RE49-10-6295	12/11/2009	1115	6	18	1.53	25.31
49-610293	RE49-10-6296	12/11/2009	1110	0	6	4.27	35.91
49-610293	RE49-10-6297	12/11/2009	1115	6	18	4.73	12.01
49-610294	RE49-10-6298	12/11/2009	1435	0	6	9.36	12.82
49-610294	RE49-10-6299	12/11/2009	1440	6	18	8.53	19.18
49-610295	RE49-10-6300	12/11/2009	1055	0	6	6.40	18.76
49-610295	RE49-10-6301	12/11/2009	1100	6	18	4.84	21.44
49-610296	RE49-10-6302	12/11/2009	1453	0	6	5.51	27.32
49-610296	RE49-10-6303	12/11/2009	1457	6	18	10.94	35.51
49-610297	RE49-10-6304	12/11/2009	1020	0	6	12.57	27.31
49-610297	RE49-10-6305	12/11/2009	1025	6	18	11.66	22.08
49-610298	RE49-10-6306	12/11/2009	1515	0	6	9.10	32.20
49-610298	RE49-10-6307	12/11/2009	1520	6	18	0.33	22.45
49-610299	RE49-10-6308	12/11/2009	925	0	6	1.34	26.22
49-610299	RE49-10-6309	12/11/2009	930	6	18	1.07	23.28
49-610300	RE49-10-6310	12/10/2009	1600	0	6	6.55	22.12
49-610300	RE49-10-6311	12/10/2009	1605	6	18	3.82	19.85
49-610301	RE49-10-6312	12/14/2009	905	0	6	6.01	30.56
49-610301	RE49-10-6313	12/14/2009	908	6	18	18.55	30.52
49-610302	RE49-10-6314	12/14/2009	925	0	6	7.72	19.05
49-610302	RE49-10-6315	12/14/2009	928	6	18	4.49	20.52
49-610303	RE49-10-6316	12/10/2009	1403	0	6	8.11	25.57
49-610303	RE49-10-6317	12/10/2009	1406	6	18	4.20	24.53
49-610304	RE49-10-6318	12/14/2009	1020	0	6	10.41	27.04
49-610304	RE49-10-6319	12/14/2009	1024	6	18	–0.27	23.85
49-610305	RE49-10-6320	12/14/2009	950	0	6	3.65	26.39
49-610305	RE49-10-6321	12/14/2009	954	6	18	14.01	23.74
49-610306	RE49-10-6322	12/14/2009	1026	0	6	7.88	17.93
49-610306	RE49-10-6323	12/14/2009	1030	6	18	13.71	29.33
49-610307	RE49-10-6324	12/4/2009	1142	0	6	4.00	30.63
49-610307	RE49-10-6325	12/4/2009	1146	6	18	15.25	39.63
49-610308	RE49-10-6326	12/4/2009	1049	0	6	8.16	32.95

Table D-5 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610308	RE49-10-6327	12/4/2009	1058	6	18	11.56	31.97
49-610309	RE49-10-6328	12/4/2009	1040	0	6	7.26	32.65
49-610309	RE49-10-6329	12/4/2009	1049	6	18	9.14	23.18
49-610310	RE49-10-6330	12/4/2009	1015	0	6	5.80	33.77
49-610310	RE49-10-6331	12/4/2009	1026	6	18	10.30	34.30
49-610311	RE49-10-6332	12/4/2009	956	0	6	5.84	32.71
49-610311	RE49-10-6333	12/4/2009	1014	6	18	6.68	34.47
49-610312	RE49-10-6334	12/4/2009	947	0	6	20.51	32.33
49-610312	RE49-10-6335	12/4/2009	950	6	18	11.40	25.07
49-610313	RE49-10-6336	12/2/2009	1504	0	6	26.86	25.84
49-610313	RE49-10-6337	12/2/2009	1508	6	18	0.27	4.27
49-610314	RE49-10-6338	12/2/2009	1547	0	6	3.79	21.72
49-610314	RE49-10-6339	12/2/2009	1556	6	18	2.73	44.33
49-610315	RE49-10-6340	12/2/2009	1622	0	6	3.92	27.48
49-610315	RE49-10-6341	12/2/2009	1625	6	18	7.46	30.93

Table D-6
Area 1 Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611042	RE49-10-10880	1/19/2010	1530	0	6	10.06	30.66
49-611042	RE49-10-10881	1/19/2010	1535	6	18	7.35	26.62
49-611043	RE49-10-10882	1/19/2010	1511	0	6	5.49	18.41
49-611043	RE49-10-10883	1/19/2010	1515	6	18	12.13	45.90
49-611044	RE49-10-10884	1/19/2010	1438	0	6	1.66	15.83
49-611044	RE49-10-10885	1/19/2010	1443	6	18	5.84	26.00
49-611045	RE49-10-10886	1/19/2010	1620	0	6	5.96	30.78
49-611045	RE49-10-10887	1/19/2010	1625	6	18	5.67	28.84

Table D-7
Area 2 Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610182	RE49-10-6006	12/16/2009	938	0	6	9.32	34.24
49-610182	RE49-10-6007	12/16/2009	941	6	18	10.77	27.36

Table D-8
Area 2 Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610183	RE49-10-6008	12/16/2009	1145	0	6	7.43	29.78
49-610183	RE49-10-6009	12/16/2009	1150	6	18	2.00	21.40
49-610184	RE49-10-6010	12/16/2009	930	0	6	2.99	39.71
49-610184	RE49-10-6011	12/16/2009	934	6	18	6.12	32.82
49-610185	RE49-10-6012	12/16/2009	925	0	6	7.25	22.67
49-610185	RE49-10-6013	12/16/2009	929	6	18	5.29	24.96

Table D-9
Area 2 Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610186	RE49-10-6014	12/16/2009	1111	0	6	13.56	23.85
49-610186	RE49-10-6015	12/16/2009	1114	6	18	3.51	20.28
49-610187	RE49-10-6016	12/16/2009	1019	0	6	13.30	24.92
49-610187	RE49-10-6017	12/16/2009	1022	6	18	7.55	27.59

Table D-10
Area 2 Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610188	RE49-10-6018	12/16/2009	1043	0	6	3.62	28.33
49-610188	RE49-10-6019	12/16/2009	1049	6	18	5.32	21.98
49-610189	RE49-10-6020	12/16/2009	1018	0	6	8.72	22.54
49-610189	RE49-10-6021	12/16/2009	1022	6	18	–0.61	25.53
49-610190	RE49-10-6022	12/16/2009	849	0	6	4.00	27.85
49-610190	RE49-10-6023	12/16/2009	853	6	18	0.96	20.47
49-610191	RE49-10-6024	12/16/2009	940	0	6	8.39	23.70
49-610191	RE49-10-6025	12/16/2009	943	6	18	1.25	24.21
49-610192	RE49-10-6026	12/16/2009	1042	0	6	4.11	16.11
49-610192	RE49-10-6027	12/16/2009	1050	6	18	2.62	24.99
49-610193	RE49-10-6028	12/16/2009	857	0	6	3.29	35.16
49-610193	RE49-10-6029	12/16/2009	900	6	18	6.49	25.84
49-610194	RE49-10-6030	12/16/2009	1058	0	6	3.81	20.29

Table D-10 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610194	RE49-10-6031	12/16/2009	1102	6	18	4.10	23.36
49-610195	RE49-10-6032	12/16/2009	1020	0	6	13.33	16.26
49-610195	RE49-10-6033	12/16/2009	1024	6	18	10.38	21.88
49-610196	RE49-10-6034	12/16/2009	Not collected				
49-610196	RE49-10-6035	12/16/2009	Not collected				
49-610197	RE49-10-6036	12/16/2009	1039	0	6	5.67	29.54
49-610197	RE49-10-6037	12/16/2009	1043	6	18	–0.51	18.73
49-610198	RE49-10-6038	12/16/2009	905	0	6	5.42	37.49
49-610198	RE49-10-6039	12/16/2009	908	6	18	4.65	25.67
49-610199	RE49-10-6040	12/16/2009	1045	0	6	11.26	35.80
49-610199	RE49-10-6041	12/16/2009	1049	6	18	5.57	29.83
49-610200	RE49-10-6042	12/16/2009	912	0	6	5.02	26.40
49-610200	RE49-10-6043	12/16/2009	915	6	18	5.02	26.28
49-610201	RE49-10-6044	12/16/2009	Not collected				
49-610201	RE49-10-6045	12/16/2009	Not collected				
49-610202	RE49-10-6046	12/16/2009	1130	0	6	2.34	26.29
49-610202	RE49-10-6047	12/16/2009	1134	6	18	11.61	19.36
49-610203	RE49-10-6048	12/16/2009	919	0	6	12.91	26.62
49-610203	RE49-10-6049	12/16/2009	923	6	18	–0.08	30.31
49-610204	RE49-10-6050	12/16/2009	1135	0	6	10.19	21.77
49-610204	RE49-10-6051	12/16/2009	1140	6	18	14.79	36.80
49-610205	RE49-10-6052	12/16/2009	1147	0	6	12.97	37.07
49-610205	RE49-10-6053	12/16/2009	1152	6	18	5.95	27.53

Table D-11
Area 2B Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610131	RE49-10-5889	12/15/2009	1330	0	6	10.82	39.98
49-610131	RE49-10-5890	12/15/2009	1334	6	18	12.81	23.38
49-610132	RE49-10-5891	12/14/2009	1604	0	6	–2.69	30.38
49-610132	RE49-10-5892	12/14/2009	1606	6	18	9.27	24.43
49-610133	RE49-10-5893	12/14/2009	1154	0	6	10.98	39.69
49-610133	RE49-10-5894	12/14/2009	1159	6	18	16.63	25.82
49-610134	RE49-10-5895	12/14/2009	1242	0	6	3.91	28.36
49-610134	RE49-10-5896	12/14/2009	1246	6	18	0.25	34.10

Table D-12
Area 2B Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610141	RE49-10-5910	12/15/2009	1014	0	6	9.52	30.33
49-610141	RE49-10-5911	12/15/2009	1017	6	18	13.20	18.53
49-610142	RE49-10-5912	12/15/2009	1008	0	6	7.58	35.87
49-610142	RE49-10-5913	12/15/2009	1012	6	18	3.19	14.28
49-610143	RE49-10-5914	12/15/2009	937	0	6	–5.59	27.54
49-610143	RE49-10-5915	12/15/2009	940	6	18	9.43	20.93
49-610144	RE49-10-5916	12/15/2009	945	0	6	2.06	31.73
49-610144	RE49-10-5917	12/15/2009	949	6	18	4.07	19.48
49-610145	RE49-10-5918	12/15/2009	951	0	6	4.00	29.83
49-610145	RE49-10-5919	12/15/2009	954	6	18	8.52	31.53
49-610146	RE19-10-5920	12/15/2009	959	0	6	14.15	20.93
49-610146	RE49-10-5921	12/15/2009	1002	6	18	0.27	25.12
49-610147	RE49-10-5922	12/14/2009	1559	0	6	2.81	31.53
49-610147	RE49-10-5923	12/14/2009	1603	6	18	11.65	20.71
49-610148	RE49-10-5924	12/14/2009	1615	0	6	9.58	25.94
49-610148	RE49-10-5925	12/14/2009	1618	6	18	6.30	23.82
49-610149	RE49-10-5926	12/14/2009	1616	0	6	15.05	32.89
49-610149	RE49-10-5927	12/14/2009	1619	6	18	9.59	24.27
49-610150	RE49-10-5928	12/14/2009	1145	0	6	7.10	31.08
49-610150	RE49-10-5929	12/14/2009	1149	6	18	6.68	30.34
49-610151	RE49-10-5930	12/14/2009	1210	0	6	19.25	27.34
49-610151	RE49-10-5931	12/14/2009	1214	6	18	31.58	30.29
49-610152	RE49-10-5932	12/14/2009	1230	0	6	12.77	36.81
49-610152	RE49-10-5933	12/14/2009	1235	6	18	–3.06	33.14
49-610153	RE49-10-5934	12/14/2009	1205	0	6	10.77	16.25
49-610153	RE49-10-5935	12/14/2009	1210	6	18	6.29	24.59
49-610154	RE49-10-5936	12/14/2009	1222	0	6	6.20	17.60
49-610154	RE49-10-5937	12/14/2009	1225	6	18	11.52	29.83
49-610155	RE49-10-5938	12/14/2009	1228	0	6	7.97	27.51
49-610155	RE49-10-5939	12/14/2009	1235	6	18	2.86	22.05
49-610156	RE49-10-5940	12/14/2009	1449	0	6	–0.12	24.46
49-610156	RE49-10-5941	12/14/2009	1451	6	18	5.62	38.77

Table D-13
Area 2B Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610135	RE49-10-5898	12/15/2009	1126	0	6	7.80	23.74
49-610135	RE49-10-5899	12/15/2009	1129	6	18	4.41	28.17
49-610136	RE49-10-5900	12/15/2009	1030	0	6	6.28	35.16
49-610136	RE49-10-5901	12/15/2009	1033	6	18	9.90	26.52
49-610137	RE49-10-5902	12/15/2009	931	0	6	19.16	26.16
49-610137	RE49-10-5903	12/15/2009	934	6	18	11.12	28.71
49-610138	RE49-10-5904	12/14/2009	1136	0	6	16.04	17.05
49-610138	RE49-10-5905	12/14/2009	1140	6	18	27.27	20.47
49-610139	RE49-10-5906	12/14/2009	1446	0	6	7.35	22.85
49-610139	RE49-10-5907	12/14/2009	1449	6	18	19.35	20.47
49-610140	RE49-10-5908	12/15/2009	1422	0	6	3.52	18.78
49-610140	RE49-10-5909	12/15/2009	1426	6	18	4.60	24.25

Table D-14
Area 2B Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610157	RE49-10-5942	12/15/2009	1056	0	6	15.14	33.59
49-610157	RE49-10-5943	12/15/2009	1059	6	18	11.43	26.68
49-610158	RE49-10-5944	12/15/2009	1052	0	6	4.18	39.90
49-610158	RE49-10-5945	12/15/2009	1055	6	18	4.39	29.18
49-610159	RE49-10-5946	12/15/2009	1135	0	6	8.62	24.20
49-610159	RE49-10-5947	12/15/2009	1138	6	18	5.78	24.31
49-610160	RE49-10-5948	12/15/2009	1036	0	6	10.53	36.05
49-610160	RE49-10-5949	12/15/2009	1039	6	18	–0.93	31.92
49-610161	RE49-10-5950	12/15/2009	1043	0	6	15.47	33.45
49-610161	RE49-10-5951	12/15/2009	1047	6	18	12.79	27.06
49-610162	RE49-10-5952	12/15/2009	1224	0	6	11.92	35.22
49-610162	RE49-10-5953	12/15/2009	1229	6	18	13.34	40.81
49-610163	RE49-10-5954	12/15/2009	1021	0	6	6.70	33.46
49-610163	RE49-10-5955	12/15/2009	1025	6	18	1.72	32.78
49-610164	RE49-10-5956	12/15/2009	1335	0	6	17.11	16.66
49-610164	RE49-10-5957	12/15/2009	1338	6	18	6.18	20.96
49-610165	RE49-10-5958	12/15/2009	923	0	6	23.48	26.74

Table D-14 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610165	RE49-10-5959	12/15/2009	926	6	18	10.14	30.65
49-610166	RE49-10-5960	12/15/2009	1343	0	6	0.46	24.04
49-610166	RE49-10-5961	12/15/2009	1347	6	18	0.21	31.85
49-610167	RE49-10-5962	12/15/2009	1352	0	6	4.92	34.27
49-610167	RE49-10-5963	12/15/2009	1356	6	18	3.77	25.24
49-610168	RE49-10-5964	12/14/2009	1542	0	6	11.34	35.92
49-610168	RE49-10-5965	12/14/2009	1545	6	18	10.77	25.51
49-610169	RE49-10-5966	12/15/2009	1404	0	6	25.28	39.09
49-610169	RE49-10-5967	12/15/2009	1408	6	18	1.51	24.95
49-610170	RE49-10-5968	12/14/2009	1439	0	6	6.78	25.73
49-610170	RE49-10-5969	12/14/2009	1443	6	18	8.93	13.65
49-610171	RE49-10-5970	12/15/2009	1405	0	6	12.58	43.38
49-610171	RE49-10-5971	12/15/2009	1408	6	18	7.91	28.38
49-610172	RE49-10-5972	12/14/2009	1142	0	6	4.50	18.54
49-610172	RE49-10-5973	12/14/2009	1144	6	18	15.04	23.91
49-610173	RE49-10-5974	12/14/2009	1158	0	6	11.86	28.42
49-610173	RE49-10-5975	12/14/2009	1200	6	18	12.71	24.55
49-610174	RE49-10-5976	12/14/2009	1247	0	6	5.90	32.77
49-610174	RE49-10-5977	12/14/2009	1250	6	18	3.50	34.91
49-610175	RE49-10-5978	12/14/2009	1550	0	6	7.54	28.59
49-610175	RE49-10-5979	12/14/2009	1555	6	18	17.18	16.51
49-610176	RE49-10-5980	12/15/2009	1420	0	6	4.23	33.63
49-610176	RE49-10-5981	12/15/2009	1424	6	18	6.72	30.87
49-610177	RE49-10-5982	12/14/2009	1457	0	6	–2.93	20.83
49-610177	RE49-10-5983	12/14/2009	1501	6	18	10.42	22.64
49-610178	RE49-10-5984	12/14/2009	1511	0	6	9.85	19.28
49-610178	RE49-10-5985	12/14/2009	1515	6	18	10.73	22.18
49-610179	RE49-10-5986	12/14/2009	1514	0	6	11.52	16.79
49-610179	RE49-10-5987	12/14/2009	1517	6	18	0.62	20.52
49-610180	RE49-10-5988	12/14/2009	1524	0	6	15.15	35.71
49-610180	RE49-10-5989	12/14/2009	1527	6	18	12.04	40.81
49-610181	RE49-10-5990	12/14/2009	1537	0	6	–2.28	19.76
49-610181	RE49-10-5991	12/14/2009	1540	6	18	16.78	31.31

Table D-15
Area 2B Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611046	RE49-10-10890	1/20/2010	1121	0	6	5.15	31.00
49-611046	RE49-10-10891	1/20/2010	1123	6	18	0.98	24.04
49-611047	RE49-10-10892	1/20/2010	1053	0	6	5.52	31.89
49-611047	RE49-10-10893	1/20/2010	1056	6	18	2.29	25.86
49-611048	RE49-10-10894	1/20/2010	1035	0	6	10.23	39.48
49-611048	RE49-10-10895	1/20/2010	1038	6	18	–0.74	24.71
49-610049	RE49-10-10896	1/20/2010	1115	0	6	10.45	28.13
49-611049	RE49-10-10897	1/20/2010	1120	6	18	1.27	26.28

Table D-16
Area 3 Category I Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609307	RE49-10-3254	11/4/2009	1254	0	6	10.48	27.86
49-609307	RE49-10-3255	11/4/2009	1302	6	18	12.81	55.04
49-609308	RE49-10-3256	11/4/2009	1300	0	6	8.41	29.06
49-609308	RE49-10-3257	11/4/2009	1318	6	18	12.25	26.41
49-609309	RE49-10-3258	11/4/2009	1309	0	6	5.38	21.46
49-609309	RE49-10-3259	11/4/2009	1310	6	18	20.63	29.66
49-609310	RE49-10-3260	11/4/2009	1319	0	6	12.44	36.12
49-609310	RE49-10-3261	11/4/2009	1321	6	18	4.34	35.75
49-609311	RE49-10-3262	11/4/2009	1328	0	6	14.72	27.44
49-609311	RE49-10-3263	11/4/2009	1330	6	18	12.01	30.04
49-609312	RE49-10-3264	11/4/2009	1331	0	6	11.07	33.35
49-609312	RE49-10-3265	11/4/2009	1333	6	18	21.26	30.22
49-609313	RE49-10-3266	11/4/2009	1337	0	6	1.42	36.04
49-609313	RE49-10-3267	11/4/2009	1339	6	18	3.86	31.34
49-609314	RE49-10-3268	11/4/2009	1339	0	6	6.56	30.85
49-609314	RE49-10-3269	11/4/2009	1341	6	18	12.98	29.62
49-609315	RE49-10-3270	11/4/2009	1345	0	6	29.49	40.43
49-609315	RE49-10-3271	11/4/2009	1347	6	18	17.96	13.28
49-609316	RE49-10-3272	11/4/2009	1350	0	6	5.02	19.09
49-609316	RE49-10-3273	11/4/2009	1352	6	18	10.62	26.80

Table D-17
Area 3 Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609320	RE49-10-3284	11/4/2009	1402	0	6	13.33	41.51
49-609320	RE49-10-3285	11/4/2009	1404	6	18	10.43	38.40
49-609321	RE49-10-3286	11/4/2009	1441	0	6	1.99	29.70
49-609321	RE49-10-3287	11/4/2009	1443	6	18	10.40	37.03
49-609317	RE49-10-3278	11/5/2009	1453	0	6	3.05	31.29
49-609317	RE49-10-3279	11/5/2009	1455	6	18	4.76	46.67
49-609318	RE49-10-3280	11/5/2009	1509	0	6	2.45	30.33
49-609318	RE49-10-3281	11/5/2009	1511	6	18	13.24	31.92
49-609319	RE49-10-3282	11/5/2009	1520	0	6	20.10	32.12
49-609319	RE49-10-3283	11/5/2009	1522	6	18	8.11	22.77
49-609322	RE49-10-3288	11/4/2009	1525	0	6	12.42	31.64
49-609322	RE49-10-3289	11/4/2009	1527	6	18	12.19	33.42
49-609323	RE49-10-3290	11/4/2009	1547	0	6	14.81	31.98
49-609323	RE49-10-3291	11/4/2009	1549	6	18	12.30	24.52
49-609324	RE49-10-3292	11/4/2009	1544	0	6	15.09	38.67
49-609324	RE49-10-3293	11/4/2009	1546	6	18	12.99	44.08
49-609325	RE49-10-3294	11/5/2009	943	0	6	4.35	30.50
49-609325	RE49-10-3295	11/5/2009	945	6	18	7.33	30.25
49-609326	RE49-10-3296	11/5/2009	1014	0	6	8.40	26.19
49-609326	RE49-10-3297	11/5/2009	1018	6	18	11.07	53.39
49-609327	RE49-10-3298	11/5/2009	1029	0	6	19.20	33.28
49-609327	RE49-10-3299	11/5/2009	1033	6	18	18.24	24.38
49-609328	RE49-10-3300	11/5/2009	1042	0	6	12.82	43.01
49-609328	RE49-10-3301	11/5/2009	1045	6	18	2.19	39.53

Table D-18
Area 3 Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609338	RE49-10-3330	11/4/2009	1356	0	6	12.60	44.75
49-609338	RE49-10-3331	11/4/2009	1358	6	18	1.43	45.59
49-609340	RE49-10-3334	11/4/2009	1411	0	6	16.64	31.16
49-609340	RE49-10-3335	11/4/2009	1413	6	18	17.80	33.25
49-609339	RE49-10-3332	11/4/2009	1417	0	6	5.77	19.61
49-609339	RE49-10-3333	11/4/2009	1419	6	18	12.30	47.45
49-609341	RE49-10-3336	11/4/2009	1423	0	6	5.32	9.77
49-609341	RE49-10-3337	11/4/2009	1425	6	18	16.72	42.24
49-609342	RE49-10-3338	11/4/2009	1437	0	6	4.31	28.89
49-609342	RE49-10-3339	11/4/2009	1438	6	18	6.74	23.21
49-609343	RE49-10-3340	11/4/2009	1448	0	6	19.80	44.12
49-609343	RE49-10-3341	11/4/2009	1450	6	18	10.38	32.95
49-609344	RE49-10-3342	11/4/2009	1500	0	6	4.78	44.55
49-609344	RE49-10-3343	11/4/2009	1502	6	18	7.54	57.39
49-609345	RE49-10-3344	11/4/2009	1509	0	6	6.05	23.47
49-609345	RE49-10-3345	11/4/2009	1511	6	18	8.10	28.08
49-609346	RE49-10-3346	11/4/2009	1513	0	6	9.09	35.34
49-609346	RE49-10-3347	11/4/2009	1515	6	18	8.25	33.64
49-609347	RE49-10-3348	11/4/2009	1525	0	6	6.66	39.80
49-609347	RE49-10-3349	11/4/2009	1527	6	18	7.63	18.50
49-609348	RE49-10-3350	11/4/2009	1535	0	6	9.91	29.09
49-609348	RE49-10-3351	11/4/2009	1537	6	18	12.79	19.17
49-609349	RE49-10-3352	11/4/2009	1537	0	6	10.73	29.19
49-609349	RE49-10-3353	11/4/2009	1539	6	18	–3.46	25.80
49-609350	RE49-10-3354	11/4/2009	1550	0	6	1.34	33.15
49-609350	RE49-10-3355	11/4/2009	1552	6	18	10.69	30.36
49-609351	RE49-10-3356	11/4/2009	1554	0	6	12.78	23.63
49-609351	RE49-10-3357	11/4/2009	1556	6	18	6.55	48.98
49-609352	RE49-10-3358	11/4/2009	1557	0	6	10.19	24.62
49-609352	RE49-10-3359	11/4/2009	1559	6	18	4.61	40.65
49-609353	RE49-10-3360	11/4/2009	1558	0	6	18.28	56.29
49-609353	RE49-10-3361	11/4/2009	1600	6	18	13.20	31.31
49-609354	RE49-10-3362	11/4/2009	1600	0	6	9.30	25.61
49-609354	RE49-10-3363	11/4/2009	1602	6	18	3.55	25.22
49-609355	RE49-10-3364	11/5/2009	930	0	6	8.44	29.89

Table D-18 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609355	RE49-10-3365	11/5/2009	932	6	18	14.08	50.61
49-609356	RE49-10-3366	11/5/2009	935	0	6	16.40	42.88
49-609356	RE49-10-3367	11/5/2009	937	6	18	20.81	38.86
49-609357	RE49-10-3368	11/5/2009	938	0	6	5.82	17.12
49-609357	RE49-10-3369	11/5/2009	942	6	18	14.62	31.34
49-609358	RE49-10-3370	11/5/2009	952	0	6	2.16	27.98
49-609358	RE49-10-3371	11/5/2009	958	6	18	6.15	26.37
49-609359	RE49-10-3372	11/5/2009	950	0	6	1.97	33.33
49-609359	RE49-10-3373	11/5/2009	954	6	18	3.87	26.35
49-609360	RE49-10-3374	11/5/2009	1000	0	6	12.56	43.38
49-609360	RE49-10-3375	11/5/2009	1005	6	18	21.01	50.87
49-609361	RE49-10-3376	11/5/2009	1003	0	6	17.68	35.35
49-609361	RE49-10-3377	11/5/2009	1005	6	18	17.97	44.43
49-609362	RE49-10-3378	11/5/2009	1015	0	6	4.35	24.85
49-609362	RE49-10-3379	11/5/2009	1018	6	18	14.51	30.61
49-609363	RE49-10-3380	11/5/2009	1020	0	6	9.83	41.13
49-609363	RE49-10-3381	11/5/2009	1025	6	18	0.34	24.70
49-609364	RE49-10-3382	11/5/2009	1025	0	6	7.56	26.46
49-609364	RE49-10-3383	11/5/2009	1028	6	18	19.89	23.47
49-609365	RE49-10-3384	11/5/2009	1045	0	6	13.66	35.04
49-609365	RE49-10-3385	11/5/2009	1048	6	18	10.30	44.01
49-609366	RE49-10-3386	11/5/2009	1054	0	6	16.37	33.90
49-609366	RE49-10-3387	11/5/2009	1056	6	18	16.51	35.02
49-609367	RE49-10-3388	11/5/2009	1103	0	6	9.10	27.39
49-609367	RE49-10-3389	11/5/2009	1108	6	18	0.76	39.14
49-609368	RE49-10-3390	11/5/2009	1110	0	6	3.79	26.66
49-609368	RE49-10-3391	11/5/2009	1115	6	18	9.29	25.41
49-609369	RE49-10-3392	11/5/2009	1120	0	6	27.49	33.35
49-609369	RE49-10-3393	11/5/2009	1123	6	18	9.55	34.13
49-609370	RE49-10-3394	11/5/2009	1123	0	6	3.97	22.13
49-609370	RE49-10-3395	11/5/2009	1130	6	18	8.65	31.41
49-609371	RE49-10-3396	11/5/2009	1138	0	6	14.91	50.70
49-609371	RE49-10-3397	11/5/2009	1142	6	18	1.87	36.05
49-609372	RE49-10-3398	11/5/2009	1152	0	6	15.29	28.11
49-609372	RE49-10-3399	11/5/2009	1158	6	18	9.87	32.76
49-609373	RE49-10-3400	11/5/2009	1155	0	6	4.49	20.73
49-609373	RE49-10-3401	11/5/2009	1158	6	18	19.09	53.46
49-609374	RE49-10-3402	11/5/2009	1215	0	6	8.43	27.04

Table D-18 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609374	RE49-10-3403	11/5/2009	1217	6	18	–0.19	45.41
49-609375	RE49-10-3404	11/5/2009	1205	0	6	11.57	42.02
49-609375	RE49-10-3405	11/5/2009	1210	6	18	22.34	35.73
49-609376	RE49-10-3406	11/5/2009	1435	0	6	24.26	33.29
49-609376	RE49-10-3407	11/5/2009	1438	6	18	0.61	25.19
49-609377	RE49-10-3408	11/5/2009	1430	0	6	15.27	29.81
49-609377	RE49-10-3409	11/5/2009	1435	6	18	11.59	27.05
49-609378	RE49-10-3410	11/5/2009	1438	0	6	13.27	28.72
49-609378	RE49-10-3411	11/5/2009	1440	6	18	6.94	15.86
49-609379	RE49-10-3412	11/5/2009	1438	0	6	12.12	36.72
49-609379	RE49-10-3413	11/5/2009	1442	6	18	7.35	24.79
49-609380	RE49-10-3414	11/5/2009	1455	0	6	17.50	27.85
49-609380	RE49-10-3415	11/5/2009	1458	6	18	4.17	23.12
49-609381	RE49-10-3416	11/5/2009	1502	0	6	19.24	29.46
49-609381	RE49-10-3417	11/5/2009	1505	6	18	2.92	25.95
49-609382	RE49-10-3418	11/5/2009	1512	0	6	8.82	36.36
49-609382	RE49-10-3419	11/5/2009	1515	6	18	11.77	39.27
49-609383	RE49-10-3420	11/5/2009	1518	0	6	13.51	31.88
49-609383	RE49-10-3421	11/5/2009	1520	6	18	6.57	36.80

Table D-19
Area 3 Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609329	RE49-10-3308	11/5/2009	1530	0	6	10.76	39.22
49-609329	RE49-10-3309	11/5/2009	1532	6	18	–1.02	58.05
49-609330	RE49-10-3310	11/5/2009	1550	0	6	6.67	36.91
49-609330	RE49-10-3311	11/5/2009	1555	6	18	8.06	45.82
49-609331	RE49-10-3312	11/5/2009	1604	0	6	11.75	38.15
49-609331	RE49-10-3313	11/5/2009	1606	6	18	11.77	32.85
49-609332	RE49-10-3314	11/6/2009	948	0	6	8.71	39.93
49-609332	RE49-10-3315	11/6/2009	950	6	18	4.91	43.36
49-609333	RE49-10-3316	11/6/2009	858	0	6	0.82	20.32
49-609333	RE49-10-3317	11/6/2009	900	6	18	14.24	25.50
49-609334	RE49-10-3318	11/6/2009	914	0	6	12.87	30.02
49-609334	RE49-10-3319	11/6/2009	916	6	18	11.08	23.84
49-609335	RE49-10-3320	11/6/2009	1035	0	6	4.21	38.84
49-609335	RE49-10-3321	11/6/2009	1040	6	18	10.71	27.87
49-609336	RE49-10-3322	11/6/2009	1142	0	6	6.44	25.40
49-609336	RE49-10-3323	11/6/2009	1145	6	18	1.39	26.79
49-609337	RE49-10-3324	11/6/2009	1148	0	6	18.46	18.42
49-609337	RE49-10-3325	11/6/2009	1150	6	18	16.23	20.70

Table D-20
Area 3 Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609384	RE49-10-3440	11/5/2009	1532	0	6	5.77	44.85
49-609384	RE49-10-3441	11/5/2009	1534	6	18	19.41	48.67
49-609385	RE49-10-3442	11/5/2009	1543	0	6	13.56	59.56
49-609385	RE49-10-3443	11/5/2009	1545	6	18	3.67	41.77
49-609386	RE49-10-3444	11/5/2009	1600	0	6	25.05	56.03
49-609386	RE49-10-3445	11/5/2009	1602	6	18	4.15	39.44
49-609387	RE49-10-3446	11/6/2009	810	0	6	3.14	30.32
49-609387	RE49-10-3447	11/6/2009	812	6	18	1.30	24.38
49-609388	RE49-10-3448	11/6/2009	814	0	6	10.44	33.11
49-609388	RE49-10-3449	11/6/2009	816	6	18	0.50	44.68
49-609389	RE49-10-3450	11/6/2009	818	0	6	7.66	40.61
49-609389	RE49-10-3451	11/6/2009	820	6	18	16.36	45.66
49-609390	RE49-10-3452	11/6/2009	826	0	6	9.43	51.28
49-609390	RE49-10-3453	11/6/2009	828	6	18	6.36	37.09
49-609391	RE49-10-3454	11/6/2009	830	0	6	6.27	39.43
49-609391	RE49-10-3455	11/6/2009	832	6	18	14.98	36.03
49-609392	RE49-10-3456	11/6/2009	834	0	6	11.68	32.70
49-609392	RE49-10-3457	11/6/2009	836	6	18	11.71	29.05
49-609393	RE49-10-3458	11/6/2009	838	0	6	21.66	39.92
49-609393	RE49-10-3459	11/6/2009	840	6	18	13.13	27.70
49-609394	RE49-10-3460	11/6/2009	925	0	6	0.98	28.07
49-609394	RE49-10-3461	11/6/2009	928	6	18	4.09	25.12
49-609395	RE49-10-3462	11/6/2009	846	0	6	0.89	32.52
49-609395	RE49-10-3463	11/6/2009	848	6	18	11.86	20.30
49-609396	RE49-10-3464	11/6/2009	930	0	6	4.80	32.74
49-609396	RE49-10-3465	11/6/2009	932	6	18	0.99	23.65
49-609397	RE49-10-3466	11/6/2009	850	0	6	19.62	31.47
49-609397	RE49-10-3467	11/6/2009	852	6	18	6.90	27.79
49-609398	RE49-10-3468	11/6/2009	942	0	6	10.05	41.33
49-609398	RE49-10-3469	11/6/2009	944	6	18	10.58	44.59
49-609399	RE49-10-3470	11/6/2009	850	0	6	1.72	35.49
49-609399	RE49-10-3471	11/6/2009	852	6	18	4.81	29.09
49-609400	RE49-10-3472	11/6/2009	952	0	6	8.69	65.78
49-609400	RE49-10-3473	11/6/2009	956	6	18	11.18	36.94
49-609401	RE49-10-3474	11/6/2009	904	0	6	8.31	24.45

Table D-20 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609401	RE49-10-3475	11/6/2009	906	6	18	6.44	17.38
49-609402	RE49-10-3476	11/6/2009	958	0	6	18.69	51.43
49-609402	RE49-10-3477	11/6/2009	1002	6	18	9.45	53.96
49-609403	RE49-10-3478	11/6/2009	908	0	6	8.11	28.37
49-609403	RE49-10-3479	11/6/2009	909	6	18	12.10	32.50
49-609404	RE49-10-3480	11/6/2009	1004	0	6	–0.50	45.00
49-609404	RE49-10-3481	11/6/2009	1006	6	18	17.47	54.07
49-609405	RE49-10-3482	11/6/2009	918	0	6	14.84	50.78
49-609405	RE49-10-3483	11/6/2009	920	6	18	14.19	42.22
49-609406	RE49-10-3484	11/6/2009	1017	0	6	14.50	47.77
49-609406	RE49-10-3485	11/6/2009	1019	6	18	4.20	32.30
49-609407	RE49-10-3486	11/6/2009	1020	0	6	15.12	54.39
49-609407	RE49-10-3487	11/6/2009	1025	6	18	13.24	52.11
49-609408	RE49-10-3488	11/6/2009	1055	0	6	–0.13	31.82
49-609408	RE49-10-3489	11/6/2009	1100	6	18	11.76	34.71
49-609409	RE49-10-3490	11/6/2009	1100	0	6	10.15	22.20
49-609409	RE49-10-3491	11/6/2009	1105	6	18	1.05	29.98
49-609410	RE49-10-3492	11/6/2009	1105	0	6	0.68	26.13
49-609410	RE49-10-3493	11/6/2009	1110	6	18	15.01	26.51
49-609411	RE49-10-3494	11/6/2009	1118	0	6	3.19	14.95
49-609411	RE49-10-3495	11/6/2009	1120	6	18	5.64	40.71
49-609412	RE49-10-3496	11/6/2009	1115	0	6	2.59	31.18
49-609412	RE49-10-3497	11/6/2009	1120	6	18	13.91	32.89
49-609413	RE49-10-3498	11/6/2009	1132	0	6	21.12	34.83
49-609413	RE49-10-3499	11/6/2009	1135	6	18	6.62	41.77
49-609414	RE49-10-3500	11/6/2009	1125	0	6	3.34	32.11
49-609414	RE49-10-3501	11/6/2009	1130	6	18	24.19	54.35
49-609415	RE49-10-3502	11/6/2009	1135	0	6	10.94	23.14
49-609415	RE49-10-3503	11/6/2009	1140	6	18	13.22	23.76
49-609416	RE49-10-3504	11/6/2009	1155	0	6	8.76	22.86
49-609416	RE49-10-3505	11/6/2009	1200	6	18	–1.22	16.53

Table D-21
Area 3 Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611083	RE49-10-10978	1/25/2010	1227	0	6	14.70	28.05
49-611083	RE49-10-10979	1/25/2010	1230	6	18	11.84	32.26
49-611084	RE49-10-10980	1/25/2010	1221	0	6	5.71	27.91
49-611084	RE49-10-10981	1/25/2010	1226	6	18	4.22	24.33
49-611085	RE49-10-10982	1/25/2010	1220	0	6	21.41	23.53
49-611085	RE49-10-10983	1/25/2010	1224	6	18	4.12	27.08
49-611086	RE49-10-10984	1/25/2010	1236	0	6	5.89	34.69
49-611086	RE49-10-10985	1/25/2010	1240	6	18	0.98	33.82
49-611087	RE49-10-10986	1/25/2010	1240	0	6	4.91	29.14
49-611087	RE49-10-10987	1/25/2010	1245	6	18	4.65	36.16
49-611088	RE49-10-10988	1/25/2010	1245	0	6	5.39	30.38
49-611088	RE49-10-10989	1/25/2010	1249	6	18	4.74	38.11
49-611089	RE49-10-10990	1/25/2010	1255	0	6	3.14	28.60
49-611089	RE49-10-10991	1/25/2010	1258	6	18	8.03	30.51
49-611090	RE49-10-10992	1/25/2010	1304	0	6	9.79	36.75
49-611090	RE49-10-10993	1/25/2010	1310	6	18	7.89	31.85
49-611091	RE49-10-10994	1/25/2010	1315	0	6	4.74	30.45
49-611091	RE49-10-10995	1/25/2010	1320	6	18	11.07	35.58
49-611092	RE49-10-10996	1/25/2010	1325	0	6	20.02	34.79
49-611092	RE49-10-10997	1/25/2010	1330	6	18	8.57	31.04
49-611093	RE49-10-10998	1/25/2010	1330	0	6	7.34	28.08
49-611093	RE49-10-10999	1/25/2010	1335	6	18	7.87	41.10
49-611094	RE49-10-11000	1/25/2010	1345	0	6	23.68	15.51
49-611094	RE49-10-11001	1/25/2010	1350	6	18	1.64	37.78
49-611095	RE49-10-11002	1/25/2010	1350	0	6	2.19	17.93
49-611095	RE49-10-11003	1/25/2010	1355	6	18	4.33	25.94
49-611096	RE49-10-11004	1/25/2010	1405	0	6	7.51	23.76
49-611096	RE49-10-11005	1/25/2010	1410	6	18	3.69	43.50
49-611097	RE49-10-11006	1/25/2010	1455	0	6	12.87	46.30
49-611097	RE49-10-11007	1/25/2010	1458	6	18	20.68	39.35
49-611098	RE49-10-11008	1/25/2010	1458	0	6	12.18	39.67
49-611098	RE49-10-11009	1/25/2010	1505	6	18	10.03	36.82
49-611099	RE49-10-11010	1/25/2010	1458	0	6	9.28	37.58
49-611099	RE49-10-11011	1/25/2010	1505	6	18	8.30	34.01
49-611100	RE49-10-11012	1/25/2010	1513	0	6	6.29	39.10

Table D-21 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611100	RE49-10-11013	1/25/2010	1518	6	18	11.33	33.50
49-611101	RE49-10-11014	1/25/2010	1514	0	6	2.79	26.12
49-611101	RE49-10-11015	1/25/2010	1519	6	18	2.65	30.67
49-611102	RE49-10-11016	1/25/2010	1522	0	6	11.28	34.30
49-611102	RE49-10-11017	1/25/2010	1526	6	18	17.90	27.19
49-611103	RE49-10-11018	1/25/2010	1543	0	6	18.16	34.92
49-611103	RE49-10-11019	1/25/2010	1548	6	18	4.24	24.12
49-611104	RE49-10-11020	1/25/2010	1535	0	6	–0.20	18.10
49-611104	RE49-10-11021	1/25/2010	1538	6	18	6.03	37.56
49-611105	RE49-10-11022	1/25/2010	1543	0	6	9.10	29.47
49-611105	RE49-10-11023	1/25/2010	1549	6	18	4.72	34.54
49-611106	RE49-10-11024	1/25/2010	1545	0	6	5.87	30.91
49-611106	RE49-10-11025	1/25/2010	1550	6	18	0.93	41.24
49-611107	RE49-10-11026	1/25/2010	1600	0	6	8.32	37.45
49-611107	RE49-10-11027	1/25/2010	1604	6	18	4.96	33.78
49-611108	RE49-10-11028	1/25/2010	1603	0	6	1.83	27.11
49-611108	RE49-10-11029	1/25/2010	1609	6	18	13.33	35.93
49-611109	RE49-10-11030	1/25/2010	1423	0	6	7.65	18.48
49-611109	RE49-10-11031	1/25/2010	1426	6	18	8.16	27.88
49-611110	RE49-10-11032	1/25/2010	1435	0	6	20.37	24.07
49-611110	RE49-10-11033	1/25/2010	1440	6	18	7.64	21.94
49-611356	RE49-10-11856	1/25/2010	1423	0	6	7.02	24.70
49-611356	RE49-10-11857	1/25/2010	1428	6	18	6.85	20.34

Table D-22
Area 4 Category I Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609657	RE49-10-4287	12/2/2009	830	0	6	18.23	49.18
49-609657	RE49-10-4288	12/2/2009	832	6	18	19.90	32.26
49-609658	RE49-10-4289	12/2/2009	910	0	6	7.40	29.10
49-609658	RE49-10-4290	12/2/2009	915	6	18	8.90	28.69
49-609659	RE49-10-4291	12/2/2009	836	0	6	7.46	39.41
49-609659	RE49-10-4292	12/2/2009	838	6	18	10.59	23.30
49-609660	RE49-10-4293	12/2/2009	842	0	6	1.93	46.28
49-609660	RE49-10-4294	12/2/2009	844	6	18	5.62	24.91
49-609661	RE49-10-4295	12/2/2009	905	0	6	2.84	31.73
49-609661	RE49-10-4296	12/2/2009	908	6	18	19.39	24.04
49-609662	RE49-10-4297	12/2/2009	916	0	6	1.56	25.58
49-609662	RE49-10-4298	12/2/2009	919	6	18	18.77	28.97
49-609663	RE49-10-4299	12/2/2009	925	0	6	9.40	34.07
49-609663	RE49-10-4300	12/2/2009	929	6	18	13.71	16.53
49-609664	RE49-10-4301	12/2/2009	933	0	6	12.74	36.59
49-609664	RE49-10-4302	12/2/2009	936	6	18	7.21	25.27

Table D-23
Area 4 Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609665	RE49-10-4307	11/16/2009	1100	0	6	6.87	58.29
49-609665	RE49-10-4308	11/16/2009	1102	6	18	10.24	53.68
49-609666	RE49-10-4309	11/16/2009	1200	0	6	10.67	48.06
49-609666	RE49-10-4310	11/16/2009	1205	6	18	10.44	47.36
49-609667	RE49-10-4311	11/16/2009	1408	0	6	22.41	48.59
49-609667	RE49-10-4312	11/16/2009	1408	6	18	15.87	43.37
49-609668	RE49-10-4313	12/2/2009	1025	0	6	9.35	27.45
49-609668	RE49-10-4314	12/2/2009	1028	6	18	6.95	24.75
49-609669	RE49-10-4315	11/16/2009	1030	0	6	3.76	50.54
49-609669	RE49-10-4316	11/16/2009	1037	6	18	11.95	47.53
49-609670	RE49-10-4317	12/2/2009	1136	0	6	6.41	17.98
49-609670	RE49-10-4318	12/2/2009	1139	6	18	1.07	19.70
49-609671	RE49-10-4319	12/2/2009	1203	0	6	11.27	26.40
49-609671	RE49-10-4320	12/2/2009	1206	6	18	6.12	16.13
49-609672	RE49-10-4321	12/2/2009	1445	0	6	8.75	35.85
49-609672	RE49-10-4322	12/2/2009	1450	6	18	14.10	21.08
49-609673	RE49-10-4323	11/16/2009	1010	0	6	7.31	36.92
49-609673	RE49-10-4324	11/16/2009	1013	6	18	6.78	50.27
49-609674	RE49-10-4325	12/2/2009	1540	0	6	13.54	38.59
49-609674	RE49-10-4326	12/2/2009	1544	6	18	10.58	28.15
49-609675	RE49-10-4327	12/2/2009	1555	0	6	8.15	22.07
49-609675	RE49-10-4328	12/2/2009	1558	6	18	10.10	23.46
49-609676	RE49-10-4329	12/2/2009	1605	0	6	5.02	20.64
49-609676	RE49-10-4330	12/2/2009	1608	6	18	16.29	16.78

Table D-24
Area 4 Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609686	RE49-10-4359	11/16/2009	1146	0	6	1.71	31.40
49-609686	RE49-10-4360	11/16/2009	1148	6	18	7.93	46.57
49-609687	RE49-10-4361	11/16/2009	1150	0	6	4.24	69.66
49-609687	RE49-10-4362	11/16/2009	1152	6	18	5.99	46.19
49-609688	RE49-10-4363	11/16/2009	1153	0	6	8.88	50.07
49-609688	RE49-10-4364	11/16/2009	1155	6	18	4.28	42.03
49-609689	RE49-10-4365	11/16/2009	1201	0	6	14.60	43.76
49-609689	RE49-10-4366	11/16/2009	1213	6	18	9.29	24.76
49-609690	RE49-10-4367	11/16/2009	1407	0	6	–4.46	27.48
49-609690	RE49-10-4368	11/16/2009	1415	6	18	6.67	41.31
49-609691	RE49-10-4369	11/16/2009	1054	0	6	17.44	40.19
49-609691	RE49-10-4370	11/16/2009	1104	6	18	3.23	27.37
49-609692	RE49-10-4371	11/16/2009	1127	0	6	0.01	38.26
49-609692	RE49-10-4372	11/16/2009	1130	6	18	17.06	42.54
49-609693	RE49-10-4373	12/2/2009	940	0	6	1.04	41.13
49-609693	RE49-10-4374	12/2/2009	944	6	18	5.10	32.55
49-609694	RE49-10-4375	12/2/2009	948	0	6	1.42	30.85
49-609694	RE49-10-4376	12/2/2009	951	6	18	6.11	23.85
49-609695	RE49-10-4377	12/2/2009	953	0	6	4.51	28.81
49-609695	RE49-10-4378	12/2/2009	955	6	18	10.03	33.16
49-609696	RE49-10-4379	12/2/2009	1005	0	6	2.33	31.67
49-609696	RE49-10-4380	12/2/2009	1008	6	18	7.71	21.79
49-609697	RE49-10-4381	12/2/2009	1013	0	6	2.13	34.08
49-609697	RE49-10-4382	12/2/2009	1016	6	18	1.97	24.93
49-609698	RE49-10-4383	12/2/2009	1021	0	6	11.61	41.18
49-609698	RE49-10-4384	12/2/2009	1024	6	18	11.48	18.14
49-609699	RE49-10-4385	11/16/2009	1049	0	6	10.59	35.19
49-609699	RE49-10-4386	11/16/2009	1053	6	18	13.93	47.94
49-609700	RE49-10-4387	11/16/2009	1131	0	6	2.60	40.96
49-609700	RE49-10-4388	11/16/2009	1134	6	18	7.48	36.46
49-609701	RE49-10-4389	12/2/2009	1033	0	6	3.92	32.76
49-609701	RE49-10-4390	12/2/2009	1036	6	18	16.18	26.56
49-609702	RE49-10-4391	12/2/2009	1109	0	6	5.09	41.02
49-609702	RE49-10-4392	12/2/2009	1112	6	18	8.86	23.14
49-609703	RE49-10-4393	12/2/2009	1116	0	6	5.76	18.19

Table D-24 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609703	RE49-10-4394	12/2/2009	1119	6	18	5.42	20.15
49-609704	RE49-10-4395	11/16/2009	1118	0	6	15.57	33.43
49-609704	RE49-10-4396	11/16/2009	1120	6	18	17.62	33.29
49-309705	RE49-10-4397	12/2/2009	1123	0	6	1.66	33.09
49-609705	RE49-10-4398	12/2/2009	1126	6	18	4.85	36.71
49-609706	RE49-10-4399	12/2/2009	1131	0	6	8.04	31.95
49-609706	RE49-10-4400	12/2/2009	1134	6	18	1.10	19.00
49-609707	RE49-10-4401	12/2/2009	1142	0	6	7.53	34.61
49-609707	RE49-10-4402	12/2/2009	1145	6	18	21.79	29.24
49-609708	RE49-10-4403	11/16/2009	1026	0	6	15.58	31.04
49-609708	RE49-10-4404	11/16/2009	1028	6	18	15.37	32.55
49-609709	RE49-10-4405	11/16/2009	1110	0	6	–5.15	29.64
49-609709	RE49-10-4406	11/16/2009	1102	6	18	7.43	46.93
49-609710	RE49-10-4407	12/2/2009	1149	0	6	12.23	22.12
49-609710	RE49-10-4408	12/2/2009	1151	6	18	1.15	26.27
49-609711	RE49-10-4409	12/2/2009	1155	0	6	4.45	31.46
49-609711	RE49-10-4410	12/2/2009	1158	6	18	6.07	19.22
49-609712	RE49-10-4411	12/2/2009	1208	0	6	0.06	27.11
49-609712	RE49-10-4412	12/2/2009	1211	6	18	14.25	22.25
49-609713	RE49-10-4413	12/2/2009	1214	0	6	7.44	34.56
49-609713	RE49-10-4414	12/2/2009	1217	6	18	2.49	18.24
49-609714	RE49-10-4415	12/2/2009	1220	0	6	11.90	21.00
49-609714	RE49-10-4416	12/2/2009	1223	6	18	7.56	26.31
49-609715	RE49-10-4417	12/2/2009	1226	0	6	10.97	32.42
49-609715	RE49-10-4418	12/2/2009	1229	6	18	6.89	18.47
49-609716	RE49-10-4419	11/16/2009	1009	0	6	8.98	38.98
49-609716	RE49-10-4420	11/16/2009	1017	6	18	11.92	45.03
49-609717	RE49-10-4421	11/16/2009	1050	0	6	17.54	63.16
49-609717	RE49-10-4422	11/16/2009	1052	6	18	11.21	30.46
49-609718	RE49-10-4423	12/2/2009	1427	0	6	5.96	29.49
49-609718	RE49-10-4424	12/2/2009	1430	6	18	10.22	25.53
49-609719	RE49-10-4425	12/2/2009	1431	0	6	10.23	24.94
49-609719	RE49-10-4426	12/2/2009	1434	6	18	23.57	29.23
49-609720	RE49-10-4427	12/2/2009	1440	0	6	14.21	41.40
49-609720	RE49-10-4428	12/2/2009	1444	6	18	11.78	24.76
49-609721	RE49-10-4429	11/16/2009	1043	0	6	20.78	49.26
49-609721	RE49-10-4430	11/16/2009	1045	6	18	11.52	34.24
49-609722	RE49-10-4431	12/2/2009	1455	0	6	20.35	38.51

Table D-24 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609722	RE49-10-4432	12/2/2009	1500	6	18	9.02	25.01
49-609723	RE49-10-4433	12/2/2009	1505	0	6	4.21	37.83
49-609723	RE49-10-4434	12/2/2009	1508	6	18	9.29	29.49
49-609724	RE49-10-4435	12/2/2009	1510	0	6	9.30	31.19
49-609724	RE49-10-4436	12/2/2009	1515	6	18	3.01	19.36
49-609725	RE49-10-4437	12/2/2009	1515	0	6	14.28	37.07
49-609725	RE49-10-4438	12/2/2009	1520	6	18	13.06	27.60
49-609726	RE49-10-4439	12/2/2009	1525	0	6	1.45	30.91
49-609726	RE49-10-4440	12/2/2009	1530	6	18	6.23	26.64
49-609727	RE49-10-4441	12/2/2009	1530	0	6	2.50	23.76
49-609727	RE49-10-4442	12/2/2009	1533	6	18	2.21	21.81
49-609728	RE49-10-4443	12/2/2009	1534	0	6	1.31	27.66
49-609728	RE49-10-4444	12/2/2009	1536	6	18	6.59	18.69
49-609729	RE49-10-4445	11/16/2009	1023	0	6	12.80	39.84
49-609729	RE49-10-4446	11/16/2009	1025	6	18	20.50	35.70
49-609730	RE49-10-4447	12/7/2009	1030	0	6	6.22	33.66
49-609730	RE49-10-4448	12/7/2009	1032	6	18	–50.83	19.43
49-609731	RE49-10-4449	12/2/2009	1545	0	6	9.08	42.42
49-609731	RE49-10-4450	12/2/2009	1548	6	18	11.82	28.16
49-609732	RE49-10-4451	12/2/2009	1550	0	6	17.36	32.47
49-609732	RE49-10-4452	12/2/2009	1552	6	18	14.33	21.85
49-609733	RE49-10-4453	12/2/2009	1600	0	6	5.37	38.09
49-609733	RE49-10-4454	12/2/2009	1603	6	18	4.21	26.76
49-609734	RE49-10-4455	12/2/2009	1610	0	6	2.68	24.33
49-609734	RE49-10-4456	12/2/2009	1614	6	18	6.33	32.37

Table D-25
Area 4 Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609677	RE49-10-4337	11/12/2009	1526	0	6	4.88	39.96
49-609677	RE49-10-4338	11/12/2009	1528	6	18	9.40	35.89
49-609678	RE49-10-4339	11/12/2009	1609	0	6	13.34	42.57
49-609678	RE49-10-4340	11/12/2009	1611	6	18	14.27	30.64
49-609679	RE49-10-4341	11/16/2009	1000	0	6	13.72	39.57
49-609679	RE49-10-4342	11/16/2009	1002	6	18	19.34	62.32
49-609680	RE49-10-4343	11/13/2009	912	0	6	7.39	29.14
49-609680	RE49-10-4344	11/13/2009	914	6	18	10.84	32.44
49-609681	RE49-10-4345	11/16/2009	926	0	6	11.65	52.33
49-609681	RE49-10-4346	11/16/2009	928	6	18	8.81	40.31
49-609682	RE49-10-4347	11/16/2009	851	0	6	15.28	45.09
49-609682	RE49-10-4348	11/16/2009	858	6	18	13.44	27.48
49-609683	RE49-10-4349	11/13/2009	1056	0	6	1.94	26.40
49-609683	RE49-10-4350	11/13/2009	1106	6	18	4.92	43.31
49-609684	RE49-10-4351	12/7/2009	1024	0	6	24.61	33.82
49-609684	RE49-10-4352	12/7/2009	1026	6	18	8.06	21.28
49-609685	RE49-10-4353	12/7/2009	840	0	6	11.39	16.90
49-609685	RE49-10-4354	12/7/2009	843	6	18	3.14	25.30

Table D-26
Area 4 Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609735	RE49-10-4477	11/12/2009	1509	0	6	24.41	58.91
49-609735	RE49-10-4478	11/12/2009	1511	6	18	–1.07	39.50
49-609736	RE49-10-4479	11/12/2009	1517	0	6	1.97	31.84
49-609736	RE49-10-4480	11/12/2009	1519	6	18	16.55	45.51
49-609737	RE49-10-4481	11/12/2009	1534	0	6	11.87	52.07
49-609737	RE49-10-4482	11/12/2009	1545	6	18	10.32	39.10
49-609738	RE49-10-4483	11/12/2009	1552	0	6	3.25	50.09
49-609738	RE49-10-4484	11/12/2009	1558	6	18	5.77	42.69
49-609739	RE49-10-4485	11/12/2009	1614	0	6	12.78	37.23
49-609739	RE49-10-4486	11/12/2009	1616	6	18	6.87	44.45
49-609740	RE49-10-4487	11/12/2009	1619	0	6	7.80	40.34
49-609740	RE49-10-4488	11/12/2009	1622	6	18	12.27	50.79

Table D-26 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609741	RE49-10-4489	11/13/2009	808	0	6	4.63	40.22
49-609741	RE49-10-4490	11/13/2009	810	6	18	9.13	34.34
49-609742	RE49-10-4491	11/13/2009	813	0	6	15.72	55.41
49-609742	RE49-10-4492	11/13/2009	823	6	18	16.32	55.11
49-609743	RE49-10-4493	11/13/2009	829	0	6	4.56	55.11
49-609743	RE49-10-4494	11/13/2009	833	6	18	11.85	39.77
49-609744	RE49-10-4495	11/13/2009	840	0	6	–2.46	34.47
49-609744	RE49-10-4496	11/13/2009	846	6	18	10.94	49.49
49-609745	RE49-10-4497	11/13/2009	856	0	6	–2.57	46.20
49-609745	RE49-10-4498	11/13/2009	858	6	18	18.49	50.82
49-609746	RE49-10-4499	11/16/2009	943	0	6	8.36	53.23
49-609746	RE49-10-4500	11/16/2009	949	6	18	9.58	42.28
49-609747	RE49-10-4501	11/13/2009	918	0	6	9.79	38.39
49-609747	RE49-10-4502	11/13/2009	931	6	18	2.24	60.56
49-609748	RE49-10-4503	11/16/2009	940	0	6	9.67	50.65
49-609748	RE49-10-4504	11/16/2009	944	6	18	2.12	43.44
49-609749	RE49-10-4505	11/13/2009	942	0	6	2.48	34.60
49-609749	RE49-10-4506	11/13/2009	943	6	18	5.27	36.16
49-609750	RE49-10-4507	11/16/2009	930	0	6	15.54	50.49
49-609750	RE49-10-4508	11/16/2009	935	6	18	11.06	55.88
49-609751	RE49-10-4509	11/13/2009	939	0	6	11.12	27.69
49-609751	RE49-10-4510	11/13/2009	940	6	18	8.00	31.80
49-609752	RE49-10-4511	11/16/2009	909	0	6	10.82	43.66
49-609752	RE49-10-4512	11/16/2009	922	6	18	8.81	48.93
49-609753	RE49-10-4513	11/13/2009	952	0	6	11.24	39.48
49-609753	RE49-10-4514	11/13/2009	1012	6	18	16.83	57.68
49-609754	RE49-10-4515	11/13/2009	957	0	6	5.56	40.56
49-609754	RE49-10-4516	11/13/2009	1013	6	18	12.63	44.47
49-609755	RE49-10-4517	11/16/2009	904	0	6	3.89	23.19
49-609755	RE49-10-4518	11/16/2009	913	6	18	11.21	47.41
49-609756	RE49-10-4519	11/13/2009	1037	0	6	4.31	43.96
49-609756	RE49-10-4520	11/13/2009	1047	6	18	12.29	44.08
49-609757	RE49-10-4521	11/16/2009	855	0	6	7.84	44.98
49-609757	RE49-10-4522	11/16/2009	857	6	18	13.08	35.74
49-609758	RE49-10-4523	11/13/2009	1042	0	6	10.31	28.08
49-609758	RE49-10-4524	11/13/2009	1044	6	18	22.41	55.92
49-609759	RE49-10-4525	12/7/2009	1020	0	6	10.45	26.95
49-609759	RE49-10-4526	12/7/2009	1023	6	18	9.79	26.67

Table D-26 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609760	RE49-10-4527	12/7/2009	805	0	6	4.27	31.19
49-609760	RE49-10-4528	12/7/2009	810	6	18	8.05	27.96
49-609761	RE49-10-4529	12/7/2009	805	0	6	7.26	33.27
49-609761	RE49-10-4530	12/7/2009	810	6	18	6.86	26.11
49-609762	RE49-10-4531	12/7/2009	815	0	6	12.42	21.01
49-609762	RE49-10-4532	12/7/2009	820	6	18	9.90	21.43
49-609763	RE49-10-4533	12/7/2009	820	0	6	4.69	12.57
49-609763	RE49-10-4534	12/7/2009	825	6	18	6.76	24.08
49-609764	RE49-10-4535	12/7/2009	1018	0	6	12.75	29.17
49-609764	RE49-10-4536	12/7/2009	1020	6	18	8.37	33.33
49-609765	RE49-10-4537	12/7/2009	828	0	6	4.17	15.97
49-609765	RE49-10-4538	12/7/2009	833	6	18	1.80	28.39
49-609766	RE49-10-4539	12/7/2009	835	0	6	8.62	48.23
49-609766	RE49-10-4540	12/7/2009	838	6	18	12.19	28.10
49-609767	RE49-10-4541	11/13/2009	1113	0	6	4.98	42.55
49-609767	RE49-10-4542	11/13/2009	1122	6	18	8.22	25.77

Table D-27
Area 4 Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611050	RE49-10-10900	1/20/2010	1253	0	6	–0.79	28.38
49-611050	RE49-10-10901	1/20/2010	1257	6	18	3.10	29.21
49-611051	RE49-10-10902	1/20/2010	1255	0	6	6.37	35.68
49-611051	RE49-10-10903	1/20/2010	1259	6	18	3.07	24.96
49-611052	RE49-10-10904	1/20/2010	1317	0	6	11.62	33.96
49-611052	RE49-10-10905	1/20/2010	1320	6	18	2.48	31.11
49-611053	RE49-10-10906	1/20/2010	1300	0	6	9.79	38.59
49-611053	RE49-10-10907	1/20/2010	1305	6	18	11.85	38.50
49-611054	RE49-10-10908	1/20/2010	1343	0	6	3.60	28.73
49-611054	RE49-10-10909	1/20/2010	1347	6	18	7.06	39.17
49-611055	RE49-10-10910	1/20/2010	1345	0	6	9.76	35.76
49-611055	RE49-10-10911	1/20/2010	1348	6	18	13.87	33.13
49-611056	RE49-10-10912	1/20/2010	1403	0	6	11.13	33.31
49-611056	RE49-10-10913	1/20/2010	1407	6	18	5.87	26.19

Table D-27 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611057	RE49-10-10914	1/20/2010	1406	0	6	12.51	29.72
49-611057	RE49-10-10915	1/20/2010	1409	6	18	5.69	39.12
49-611058	RE49-10-10916	1/20/2010	1420	0	6	12.06	32.12
49-611058	RE49-10-10917	1/20/2010	1425	6	18	7.02	35.04
49-611059	RE49-10-10918	1/20/2010	1423	0	6	1.40	29.13
49-611059	RE49-10-10919	1/20/2010	1426	6	18	1.12	32.47
49-611060	RE49-10-10920	1/20/2010	1452	0	6	18.71	27.59
49-611060	RE49-10-10921	1/20/2010	1455	6	18	4.19	32.99
49-611061	RE49-10-10922	1/20/2010	1454	0	6	9.73	36.74
49-611061	RE49-10-10923	1/20/2010	1457	6	18	16.05	28.19
49-611062	RE49-10-10924	1/20/2010	1518	0	6	12.80	34.82
49-611062	RE49-10-10925	1/20/2010	1521	6	18	8.93	32.26
49-611063	RE49-10-10926	1/20/2010	1517	0	6	15.68	37.16
49-611063	RE49-10-10927	1/20/2010	1520	6	18	2.16	35.46
49-611064	RE49-10-10928	1/21/2010	800	0	6	7.99	40.35
49-611064	RE49-10-10929	1/21/2010	804	6	18	11.95	36.78
49-611065	RE49-10-10930	1/20/2010	1524	0	6	8.01	31.02
49-611065	RE49-10-10931	1/20/2010	1529	6	18	5.09	32.87
49-611066	RE49-10-10932	1/21/2010	802	0	6	18.01	51.12
49-611066	RE49-10-10933	1/21/2010	805	6	18	1.17	32.89
49-611067	RE49-10-10934	1/25/2010	815	0	6	2.44	30.80
49-611067	RE49-10-10935	1/25/2010	820	6	18	7.04	37.91
49-611068	RE49-10-10936	1/25/2010	816	0	6	5.46	22.63
49-611068	RE49-10-10937	1/25/2010	821	6	18	–1.89	21.64
49-611069	RE49-10-10938	1/25/2010	820	0	6	5.35	47.65
49-611069	RE49-10-10939	1/25/2010	826	6	18	14.63	39.23
49-611070	RE49-10-10940	1/25/2010	835	0	6	10.07	29.39
49-611070	RE49-10-10941	1/25/2010	840	6	18	7.36	21.09
49-611071	RE49-10-10942	1/25/2010	836	0	6	2.68	35.19
49-611071	RE49-10-10943	1/25/2010	840	6	18	7.25	28.79
49-611072	RE49-10-10944	1/25/2010	854	0	6	9.44	26.51
49-611072	RE49-10-10945	1/25/2010	900	6	18	4.62	22.63
49-611073	RE49-10-10946	1/25/2010	900	0	6	15.54	26.25
49-611073	RE49-10-10947	1/25/2010	905	6	18	2.24	32.12
49-611074	RE49-10-10948	1/25/2010	923	0	6	3.82	23.75
49-611074	RE49-10-10949	1/25/2010	927	6	18	11.95	29.67
49-611075	RE49-10-10950	1/25/2010	924	0	6	3.01	25.89
49-611075	RE49-10-10951	1/25/2010	930	6	18	4.56	33.55

Table D-27 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611076	RE49-10-10952	1/25/2010	945	0	6	12.12	24.09
49-611076	RE49-10-10953	1/25/2010	920	6	18	15.47	31.72
49-611077	RE49-10-10954	1/25/2010	946	0	6	7.24	32.06
49-611077	RE49-10-10955	1/25/2010	951	6	18	5.72	28.94
49-611078	RE49-10-10968	1/25/2010	954	0	6	12.48	24.10
49-611078	RE49-10-10969	1/25/2010	1000	6	18	7.69	44.53
49-611079	RE49-10-10970	1/25/2010	1012	0	6	5.75	21.97
49-611079	RE49-10-10971	1/25/2010	1017	6	18	19.73	26.69
49-611080	RE49-10-10972	1/25/2010	1014	0	6	3.45	22.37
49-611080	RE49-10-10973	1/25/2010	1020	6	18	9.39	29.28
49-611081	RE49-10-10974	1/25/2010	1015	0	6	–1.33	17.33
49-611081	RE49-10-10975	1/25/2010	1021	6	18	–5.54	40.28
49-611082	RE49-10-10976	1/25/2010	1035	0	6	12.63	22.71
49-611082	RE49-10-10977	1/25/2010	1040	6	18	9.05	29.16
49-611416	RE49-10-12420	2/10/2010	1005	0	6	2.95	31.30
49-611416	RE49-10-12421	2/10/2010	1015	6	18	9.58	35.20
49-611417	RE49-10-12422	2/10/2010	1008	0	6	8.93	29.45
49-611417	RE49-10-12423	2/10/2010	1018	6	18	5.08	32.47
49-611418	RE49-10-12424	2/10/2010	1015	0	6	0.17	36.54
49-611418	RE49-10-12425	2/10/2010	1025	6	18	5.90	31.55

Table D-28
Area 12 Category I Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609889	RE49-10-5089	11/10/2009	1335	0	6	7.34	40.67
49-609889	RE49-10-5090	11/10/2009	1337	6	18	10.67	40.60
49-609890	RE49-10-5091	11/10/2009	1338	0	6	10.32	28.78
49-609890	RE49-10-5092	11/10/2009	1340	6	18	7.20	54.69
49-609891	RE49-10-5093	11/10/2009	1347	0	6	8.85	43.23
49-609891	RE49-10-5094	11/10/2009	1349	6	18	2.12	23.58
49-609892	RE49-10-5095	11/10/2009	1354	0	6	7.67	25.64
49-609892	RE49-10-5096	11/10/2009	1356	6	18	6.85	28.39
49-609893	RE49-10-5097	11/10/2009	1354	0	6	4.24	27.80
49-609893	RE49-10-5098	11/10/2009	1356	6	18	2.44	27.98

Table D-29
Area 12 Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609895	RE49-10-5104	11/10/2009	1453	0	6	19.85	23.25
49-609895	RE49-10-5105	11/10/2009	1451	6	18	6.01	16.25
49-609896	RE49-10-5106	11/10/2009	1522	0	6	4.25	17.21
49-609896	RE49-10-5107	11/10/2009	1524	6	18	1.35	29.19
49-609897	RE49-10-5108	11/11/2009	850	0	6	7.14	37.17
49-609897	RE49-10-5109	11/11/2009	852	6	18	9.96	29.37
49-609898	RE49-10-5110	11/11/2009	854	0	6	13.54	27.81
49-609898	RE49-10-5111	11/11/2009	856	6	18	14.41	24.52
49-609899	RE49-10-5112	11/11/2009	915	0	6	1.05	35.67
49-609899	RE49-10-5113	11/11/2009	917	6	18	15.19	23.38
49-609900	RE49-10-5114	11/11/2009	1001	0	6	2.03	27.66
49-609900	RE49-10-5115	11/11/2009	1003	6	18	9.15	45.67
49-609901	RE49-10-5116	11/11/2009	1011	0	6	2.39	33.34
49-609901	RE49-10-5117	11/11/2009	1013	6	18	8.75	23.15
49-609902	RE49-10-5118	11/11/2009	1020	0	6	15.48	33.07
49-609902	RE49-10-5119	11/11/2009	1022	6	18	2.50	19.18
49-609903	RE49-10-5120	11/11/2009	1105	0	6	15.67	30.41
49-609903	RE49-10-5121	11/11/2009	1107	6	18	6.62	39.36
49-609904	RE49-10-5122	11/11/2009	1116	0	6	6.66	39.36
49-609904	RE49-10-5123	11/11/2009	1118	6	18	13.25	16.80
49-609905	RE49-10-5124	11/11/2009	1124	0	6	19.83	25.64
49-609905	RE49-10-5125	11/11/2009	1126	6	18	8.00	17.70

Table D-30
Area 12 Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609914	RE49-10-5154	11/10/2009	1410	0	6	–0.32	43.49
49-609914	RE49-10-5155	11/10/2009	1412	6	18	15.52	44.59
49-609915	RE49-10-5156	11/10/2009	1420	0	6	10.17	40.80
49-609915	RE49-10-5157	11/10/2009	1422	6	18	3.30	31.22
49-609916	RE49-10-5158	11/10/2009	1434	0	6	6.02	32.82
49-609916	RE49-10-5159	11/10/2009	1436	6	18	5.95	18.64
49-609917	RE49-10-5160	11/10/2009	1454	0	6	0.52	27.82
49-609917	RE49-10-5161	11/10/2009	1456	6	18	10.78	28.57
49-609918	RE49-10-5162	11/10/2009	1500	0	6	1.44	27.80
49-609918	RE49-10-5163	11/10/2009	1502	6	18	–0.71	19.20
49-609919	RE49-10-5164	11/10/2009	1509	0	6	5.41	21.97
49-609919	RE49-10-5165	11/10/2009	1511	6	18	17.23	30.24
49-609920	RE49-10-5166	11/10/2009	1519	0	6	12.37	47.24
49-609920	RE49-10-5167	11/10/2009	1521	6	18	5.33	47.38
49-609921	RE49-10-5168	11/10/2009	1533	0	6	8.97	38.82
49-609921	RE49-10-5169	11/10/2009	1535	6	18	6.79	36.84
49-609922	RE49-10-5170	11/10/2009	1534	0	6	15.91	27.72
49-609922	RE49-10-5171	11/10/2009	1536	6	18	18.50	32.16
49-609923	RE49-10-5172	11/10/2009	1544	0	6	4.20	37.90
49-609923	RE49-10-5173	11/10/2009	1546	6	18	24.13	31.00
49-609924	RE49-10-5174	11/10/2009	1542	0	6	16.00	47.77
49-609924	RE49-10-5175	11/10/2009	1544	6	18	8.92	33.74
49-609925	RE49-10-5176	11/10/2009	1550	0	6	27.69	44.80
49-609925	RE49-10-5177	11/10/2009	1552	6	18	11.56	51.82
49-609926	RE49-10-5178	11/10/2009	1600	0	6	12.51	43.16
49-609926	RE49-10-5179	11/10/2009	1602	6	18	3.60	31.93
49-609927	RE49-10-5180	11/10/2009	1603	0	6	11.23	47.03
49-609927	RE49-10-5181	11/10/2009	1605	6	18	9.39	26.78
49-609928	RE49-10-5182	11/10/2009	1609	0	6	9.45	39.76
49-609928	RE49-10-5183	11/10/2009	1611	6	18	15.08	32.88
49-609929	RE49-10-5184	11/10/2009	1612	0	6	14.23	37.08
49-609929	RE49-10-5185	11/10/2009	1614	6	18	3.83	18.34
49-609930	RE49-10-5186	11/11/2009	846	0	6	9.51	37.67
49-609930	RE49-10-5187	11/11/2009	848	6	18	5.56	19.53
49-609931	RE49-10-5188	11/11/2009	900	0	6	4.46	35.69
49-609931	RE49-10-5189	11/11/2009	902	6	18	8.27	27.85

Table D-30 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609932	RE49-10-5190	11/11/2009	903	0	6	0.26	22.31
49-609932	RE49-10-5191	11/11/2009	905	6	18	6.02	24.35
49-609933	RE49-10-5192	11/11/2009	910	0	6	10.95	38.71
49-609933	RE49-10-5193	11/11/2009	912	6	18	3.63	19.91
49-609934	RE49-10-5194	11/11/2009	919	0	6	17.43	28.07
49-609934	RE49-10-5195	11/11/2009	921	6	18	–3.92	25.03
49-609935	RE49-10-5196	11/11/2009	937	0	6	4.19	42.57
49-609935	RE49-10-5197	11/11/2009	939	6	18	17.35	31.72
49-609936	RE49-10-5198	11/11/2009	924	0	6	–4.34	40.03
49-609936	RE49-10-5199	11/11/2009	926	6	18	3.79	19.81
49-609937	RE49-10-5200	11/11/2009	931	0	6	9.60	30.94
49-609937	RE49-10-5201	11/11/2009	933	6	18	0.28	14.47
49-609938	RE49-10-5202	11/11/2009	942	0	6	13.01	18.98
49-609938	RE49-10-5203	11/11/2009	944	6	18	5.50	31.63
49-609939	RE49-10-5204	11/11/2009	945	0	6	18.24	36.41
49-609939	RE49-10-5205	11/11/2009	947	6	18	7.57	37.19
49-609940	RE49-10-5206	11/11/2009	950	0	6	8.25	30.51
49-609940	RE49-10-5207	11/11/2009	952	6	18	3.05	46.06
49-609941	RE49-10-5208	11/11/2009	950	0	6	2.73	42.83
49-609941	RE49-10-5209	11/11/2009	952	6	18	2.04	35.72
49-609942	RE49-10-5210	11/11/2009	958	0	6	8.37	39.29
49-609942	RE49-10-5211	11/11/2009	1000	6	18	6.23	16.30
49-609943	RE49-10-5212	11/11/2009	1005	0	6	10.91	22.33
49-609943	RE49-10-5213	11/11/2009	1007	6	18	–2.03	25.42
49-609944	RE49-10-5214	11/11/2009	1008	0	6	–2.23	38.34
49-609944	RE49-10-5215	11/11/2009	1010	6	18	16.81	25.98
49-609945	RE49-10-5216	11/11/2009	1017	0	6	–0.08	26.21
49-609945	RE49-10-5217	11/11/2009	1019	6	18	2.68	24.74
49-609946	RE49-10-5218	11/11/2009	1026	0	6	10.26	29.40
49-609946	RE49-10-5219	11/11/2009	1028	6	18	13.16	12.05
49-609947	RE49-10-5220	11/11/2009	1030	0	6	8.00	22.71
49-609947	RE49-10-5221	11/11/2009	1032	6	18	6.12	11.21
49-609948	RE49-10-5222	11/11/2009	1032	0	6	7.25	28.40
49-609948	RE49-10-5223	11/11/2009	1034	6	18	11.02	22.14
49-609949	RE49-10-5224	11/11/2009	1037	0	6	–0.74	30.14
49-609949	RE49-10-5225	11/11/2009	1039	6	18	15.91	14.39
49-609950	RE49-10-5226	11/11/2009	1040	0	6	29.41	41.41
49-609950	RE49-10-5227	11/11/2009	1042	6	18	9.67	32.09

Table D-30 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609951	RE49-10-5228	11/11/2009	1046	0	6	12.80	22.02
49-609951	RE49-10-5229	11/11/2009	1048	6	18	5.38	30.63
49-609952	RE49-10-5230	11/11/2009	1049	0	6	2.30	9.18
49-609952	RE49-10-5231	11/11/2009	1051	6	18	–6.27	24.44
49-609953	RE49-10-5232	11/11/2009	1054	0	6	7.47	13.32
49-609953	RE49-10-5233	11/11/2009	1056	6	18	21.61	36.32
49-609954	RE49-10-5234	11/11/2009	1057	0	6	3.11	34.76
49-609954	RE49-10-5235	11/11/2009	1059	6	18	7.18	41.61
49-609955	RE49-10-5236	11/11/2009	1102	0	6	7.25	59.92
49-609955	RE49-10-5237	11/11/2009	1104	6	18	13.73	22.42
49-609956	RE49-10-5238	11/11/2009	1110	0	6	4.28	28.25
49-609956	RE49-10-5239	11/11/2009	1112	6	18	30.33	28.67
49-609957	RE49-10-5240	11/11/2009	1121	0	6	6.42	24.09
49-609957	RE49-10-5241	11/11/2009	1123	6	18	17.43	24.67

Table D-31
Area 12 Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609906	RE49-10-5132	11/11/2009	1330	0	6	15.36	15.47
49-609906	RE49-10-5133	11/11/2009	1333	6	18	7.51	19.98
49-609907	RE49-10-5134	11/11/2009	1350	0	6	5.48	24.23
49-609907	RE49-10-5135	11/11/2009	1353	6	18	6.21	12.00
49-609908	RE49-10-5136	11/11/2009	1404	0	6	–0.27	26.08
49-609908	RE49-10-5137	11/11/2009	1407	6	18	5.47	18.86
49-609909	RE49-10-5138	11/11/2009	1458	0	6	15.68	33.71
49-609909	RE49-10-5139	11/11/2009	1500	6	18	35.32	32.30
49-609910	RE49-10-5140	11/11/2009	1510	0	6	6.06	32.84
49-609910	RE49-10-5141	11/11/2009	1512	6	18	1.33	23.60
49-609911	RE49-10-5142	11/11/2009	1539	0	6	–5.32	26.50
49-609911	RE49-10-5143	11/11/2009	1542	6	18	8.19	24.56
49-609912	RE49-10-5144	11/11/2009	1545	0	6	11.17	34.55
49-609912	RE49-10-5145	11/11/2009	1548	6	18	12.19	25.33
49-609913	RE49-10-5146	11/11/2009	1550	0	6	10.05	28.77
49-609913	RE49-10-5147	11/11/2009	1553	6	18	8.92	15.67

Table D-32
Area 12 Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609958	RE49-10-5269	11/11/2009	1330	0	6	20.94	27.78
49-609958	RE49-10-5270	11/11/2009	1335	6	18	2.12	14.68
49-609959	RE49-10-5271	11/11/2009	1340	0	6	9.53	25.59
49-609959	RE49-10-5272	11/11/2009	1345	6	18	0.66	23.22
49-609960	RE49-10-5273	11/11/2009	1350	0	6	9.96	41.71
49-609960	RE49-10-5274	11/11/2009	1355	6	18	9.34	48.10
49-609961	RE49-10-5275	11/11/2009	1500	0	6	8.64	48.79
49-609961	RE49-10-5276	11/11/2009	1503	6	18	–0.15	36.36
49-609962	RE49-10-5277	11/11/2009	1420	0	6	3.14	31.18
49-609962	RE49-10-5278	11/11/2009	1425	6	18	6.80	35.56
49-609963	RE49-10-5279	11/11/2009	1430	0	6	14.88	24.73
49-609963	RE49-10-5280	11/11/2009	1435	6	18	11.46	24.29
49-609964	RE49-10-5281	11/11/2009	1445	0	6	13.67	36.74
49-609964	RE49-10-5282	11/11/2009	1450	6	18	10.77	24.02
49-609965	RE49-10-5283	11/11/2009	1450	0	6	2.10	27.50
49-609965	RE49-10-5284	11/11/2009	1455	6	18	40.32	34.32
49-609966	RE49-10-5285	11/11/2009	1410	0	6	17.24	22.99
49-609966	RE49-10-5286	11/11/2009	1415	6	18	6.28	24.03
49-609967	RE49-10-5287	11/11/2009	1348	0	6	8.30	28.28
49-609967	RE49-10-5288	11/11/2009	1352	6	18	18.48	26.77
49-609968	RE49-10-5289	11/11/2009	1357	0	6	3.84	34.84
49-609968	RE49-10-5290	11/11/2009	1357	6	18	10.37	23.72
49-609969	RE49-10-5291	11/11/2009	1425	0	6	1.60	34.07
49-609969	RE49-10-5292	11/11/2009	1430	6	18	–0.04	21.69
49-609970	RE49-10-5293	11/11/2009	1503	0	6	9.92	18.61
49-609970	RE49-10-5294	11/11/2009	1505	6	18	4.15	20.13
49-609971	RE49-10-5295	11/11/2009	1506	0	6	18.71	38.63
49-609971	RE49-10-5296	11/11/2009	1508	6	18	20.18	26.85
49-609972	RE49-10-5297	11/11/2009	1515	0	6	2.46	21.96
49-609972	RE49-10-5298	11/11/2009	1518	6	18	5.23	33.93
49-609973	RE49-10-5299	11/11/2009	1520	0	6	1.29	20.95
49-609973	RE49-10-5300	11/11/2009	1522	6	18	9.87	27.03
49-609974	RE49-10-5301	11/11/2009	1523	0	6	3.61	23.84
49-609974	RE49-10-5302	11/11/2009	1525	6	18	7.65	31.10
49-609975	RE49-10-5303	11/11/2009	1528	0	6	3.19	22.12

Table D-32 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609975	RE49-10-5304	11/11/2009	1530	6	18	24.05	43.09
49-609976	RE49-10-5305	11/11/2009	1533	0	6	2.48	52.39
49-609976	RE49-10-5306	11/11/2009	1535	6	18	5.77	29.14
49-609977	RE49-10-5307	11/11/2009	1536	0	6	8.80	40.67
49-609977	RE49-10-5308	11/11/2009	1538	6	18	5.69	20.03

Table D-33
Area 12 Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610464	RE49-10-6873	11/17/2009	1348	0	6	15.07	39.51
49-610464	RE49-10-6874	11/17/2009	1350	6	18	7.06	27.04
49-610465	RE49-10-6875	11/17/2009	1352	0	6	–0.20	44.90
49-610465	RE49-10-6876	11/17/2009	1354	6	18	8.66	39.93
49-610466	RE49-10-6877	11/17/2009	1356	0	6	10.29	46.72
49-610466	RE49-10-6878	11/17/2009	1358	6	18	15.13	39.66
49-610467	RE49-10-6879	11/17/2009	1357	0	6	12.08	46.32
49-610467	RE49-10-6880	11/17/2009	1358	6	18	14.34	34.14
49-610468	RE49-10-6881	11/17/2009	1413	0	6	19.11	43.41
49-610468	RE49-10-6882	11/17/2009	1415	6	18	8.44	34.79
49-610469	RE49-10-6883	11/17/2009	1417	0	6	12.82	40.97
49-610469	RE49-10-6884	11/17/2009	1420	6	18	5.29	43.36
49-610470	RE49-10-6885	11/17/2009	1423	0	6	8.69	40.64
49-610470	RE49-10-6886	11/17/2009	1425	6	18	8.62	39.27

Table D-34
Corridor 1 Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610098	RE49-10-5823	11/24/2009	1343	0	6	–0.13	25.26
49-610098	RE49-10-5824	11/24/2009	1345	6	18	17.30	14.05
49-610099	RE49-10-5825	11/24/2009	1347	0	6	14.75	29.80
49-610099	RE49-10-5826	11/24/2009	1349	6	18	10.52	17.18
49-610100	RE49-10-5827	11/24/2009	1351	0	6	–0.47	27.86
49-610100	RE49-10-5828	11/24/2009	1353	6	18	2.99	25.01
49-610101	RE49-10-5829	11/24/2009	1405	0	6	14.90	23.27
49-610101	RE49-10-5830	11/24/2009	1407	6	18	1.49	15.99
49-610102	RE49-10-5831	11/24/2009	1409	0	6	1.61	18.59
49-610102	RE49-10-5832	11/24/2009	1411	6	18	7.93	24.94
49-610103	RE49-10-5833	11/24/2009	1413	0	6	10.40	19.48
49-610103	RE49-10-5834	11/24/2009	1415	6	18	4.42	10.71
49-610104	RE49-10-5835	11/24/2009	1423	0	6	5.62	23.11
49-610104	RE49-10-5836	11/24/2009	1425	6	18	2.78	29.66
49-610105	RE49-10-5837	11/24/2009	1427	0	6	8.73	17.29
49-610105	RE49-10-5838	11/24/2009	1429	6	18	–0.60	11.55
49-610106	RE49-10-5839	11/24/2009	1431	0	6	9.17	21.47
49-610106	RE49-10-5840	11/24/2009	1433	6	18	16.10	18.05
49-610107	RE49-10-5841	11/24/2009	1440	0	6	1.34	32.56
49-610107	RE49-10-5842	11/24/2009	1442	6	18	3.89	16.57
49-610108	RE49-10-5843	11/24/2009	1444	0	6	3.69	13.68
49-610108	RE49-10-5844	11/24/2009	1446	6	18	8.33	24.68
49-610109	RE49-10-5845	11/24/2009	1448	0	6	19.69	29.53
49-610109	RE49-10-5846	11/24/2009	1450	6	18	6.38	15.69
49-610110	RE49-10-5847	11/24/2009	1458	0	6	8.33	29.92
49-610110	RE49-10-5848	11/24/2009	1500	6	18	8.56	8.49
49-610111	RE49-10-5849	11/24/2009	1502	0	6	4.59	26.40
49-610111	RE49-10-5850	11/24/2009	1504	6	18	0.09	18.90
49-610112	RE49-10-5851	11/24/2009	1506	0	6	3.92	20.90
49-610112	RE49-10-5852	11/24/2009	1508	6	18	0.06	15.23
49-610113	RE49-10-5853	11/24/2009	1516	0	6	18.26	29.71
49-610113	RE49-10-5854	11/24/2009	1518	6	18	8.20	8.43
49-610114	RE49-10-5855	11/24/2009	1520	0	6	2.19	32.69
49-610114	RE49-10-5856	11/24/2009	1522	6	18	5.91	16.23

Table D-34 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610115	RE49-10-5857	11/24/2009	1524	0	6	20.23	20.73
49-610115	RE49-10-5858	11/24/2009	1526	6	18	6.49	18.49
49-610116	RE49-10-5859	11/24/2009	1530	0	6	9.15	21.88
49-610116	RE49-10-5860	11/24/2009	1532	6	18	3.00	14.17
49-610117	RE49-10-5861	11/24/2009	1534	0	6	12.58	17.38
49-610117	RE49-10-5862	11/24/2009	1536	6	18	7.53	21.35
49-610118	RE49-10-5863	11/24/2009	1538	0	6	–0.13	25.70
49-610118	RE49-10-5864	11/24/2009	1540	6	18	6.33	28.07
49-610119	RE49-10-5865	11/24/2009	1553	0	6	4.45	30.18
49-610119	RE49-10-5866	11/24/2009	1555	6	18	10.58	16.04
49-610120	RE49-10-5867	11/24/2009	1557	0	6	23.43	48.59
49-610120	RE49-10-5868	11/24/2009	1559	6	18	14.44	21.95
49-610121	RE49-10-5869	11/24/2009	1601	0	6	11.97	9.25
49-610121	RE49-10-5870	11/24/2009	1604	6	18	16.39	13.39
49-610122	RE49-10-5871	11/30/2009	1130	0	6	29.06	32.78
49-610122	RE49-10-5872	11/30/2009	1132	6	18	20.17	30.06
49-610123	RE49-10-5873	11/30/2009	1134	0	6	33.16	23.86
49-610123	RE49-10-5874	11/30/2009	1136	6	18	12.35	26.70
49-610124	RE49-10-5875	11/30/2009	1138	0	6	17.42	22.95
49-610124	RE49-10-5876	11/30/2009	1140	6	18	14.69	14.40
49-610125	RE49-10-5877	11/30/2009	1150	0	6	4.43	24.69
49-610125	RE49-10-5878	11/30/2009	1152	6	18	4.14	12.38
49-610126	RE49-10-5879	11/30/2009	1154	0	6	10.59	17.35
49-610126	RE49-10-5880	11/30/2009	1156	6	18	5.24	17.75
49-610127	RE49-10-5881	11/30/2009	1158	0	6	10.88	22.49
49-610127	RE49-10-5882	11/30/2009	1200	6	18	8.88	13.03
49-610128	RE49-10-5883	11/30/2009	1206	0	6	8.85	16.88
49-610128	RE49-10-5884	11/30/2009	1208	6	18	15.87	33.52
49-610129	RE49-10-5885	11/30/2009	1210	0	6	10.92	25.60
49-610129	RE49-10-5886	11/30/2009	1212	6	18	10.47	29.55
49-610130	RE49-10-5887	11/30/2009	1214	0	6	15.27	20.32
49-610130	RE49-10-5888	11/30/2009	1216	6	18	9.21	18.86

Table D-35
Corridor 2 Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610068	RE49-10-5751	11/24/2009	1133	0	6	11.80	30.47
49-610068	RE49-10-5752	11/24/2009	1135	6	18	15.08	20.01
49-610069	RE49-10-5753	11/24/2009	1137	0	6	–0.15	30.67
49-610069	RE49-10-5754	11/24/2009	1139	6	18	5.31	24.06
49-610070	RE49-10-5755	11/24/2009	1141	0	6	5.95	22.74
49-610070	RE49-10-5756	11/24/2009	1143	6	18	6.05	35.94
49-610071	RE49-10-5757	11/24/2009	1103	0	6	5.53	17.85
49-610071	RE49-10-5758	11/24/2009	1105	6	18	19.91	30.10
49-610072	RE49-10-5759	11/24/2009	1107	0	6	6.14	17.40
49-610072	RE49-10-5760	11/24/2009	1109	6	18	6.46	21.35
49-610073	RE49-10-5761	11/24/2009	1111	0	6	2.98	14.18
49-610073	RE49-10-5762	11/24/2009	1113	6	18	1.57	23.58
49-610074	RE49-10-5763	11/24/2009	1043	0	6	14.51	31.62
49-610074	RE49-10-5764	11/24/2009	1045	6	18	2.29	19.50
49-610075	RE49-10-5765	11/24/2009	1046	0	6	7.48	23.35
49-610075	RE49-10-5766	11/24/2009	1048	6	18	5.44	38.74
49-610076	RE49-10-5767	11/24/2009	1049	0	6	5.73	24.44
49-610076	RE49-10-5768	11/24/2009	1051	6	18	–2.58	20.04
49-610077	RE49-10-5769	11/24/2009	1026	0	6	5.88	23.41
49-610077	RE49-10-5770	11/24/2009	1028	6	18	5.36	25.83
49-610078	RE49-10-5771	11/24/2009	1030	0	6	8.60	27.51
49-610078	RE49-10-5772	11/24/2009	1032	6	18	14.78	32.89
49-610079	RE49-10-5773	11/24/2009	1035	0	6	9.26	27.52
49-610079	RE49-10-5774	11/24/2009	1037	6	18	13.45	26.48
49-610080	RE49-10-5775	11/24/2009	1003	0	6	8.11	21.40
49-610080	RE49-10-5776	11/24/2009	1005	6	18	6.78	18.13
49-610081	RE49-10-5777	11/24/2009	1007	0	6	20.76	28.58
49-610081	RE49-10-5778	11/24/2009	1010	6	18	18.63	34.28
49-610082	RE49-10-5779	11/24/2009	1019	0	6	7.91	21.17
49-610082	RE49-10-5780	11/24/2009	1021	6	18	18.02	23.24
49-610083	RE49-10-5781	11/23/2009	1543	0	6	2.83	31.24
49-610083	RE49-10-5782	11/23/2009	1545	6	18	4.06	27.70
49-610084	RE49-10-5783	11/23/2009	1548	0	6	6.33	31.44
49-610084	RE49-10-5784	11/23/2009	1550	6	18	17.81	11.76
49-610085	RE49-10-5785	11/23/2009	1552	0	6	12.42	14.47

Table D-35 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610085	RE49-10-5786	11/23/2009	1554	6	18	5.84	28.35
49-610086	RE49-10-5787	11/23/2009	1523	0	6	13.06	17.23
49-610086	RE49-10-5788	11/23/2009	1526	6	18	3.29	16.81
49-610087	RE49-10-5789	11/23/2009	1528	0	6	7.80	25.79
49-610087	RE49-10-5790	11/23/2009	1531	6	18	–0.47	20.79
49-610088	RE49-10-5791	11/23/2009	1535	0	6	17.95	17.55
49-610088	RE49-10-5792	11/23/2009	1537	6	18	6.27	27.90
49-610089	RE49-10-5793	11/23/2009	1454	0	6	1.84	27.62
49-610089	RE49-10-5794	11/23/2009	1458	6	18	7.16	31.96
49-610090	RE49-10-5795	11/23/2009	1503	0	6	10.66	20.31
49-610090	RE49-10-5796	11/23/2009	1506	6	18	16.92	22.44
49-610091	RE49-10-5797	11/23/2009	1508	0	6	12.55	30.42
49-610091	RE49-10-5798	11/23/2009	1510	6	18	1.39	24.77
49-610092	RE49-10-5799	11/23/2009	1435	0	6	14.87	36.03
49-610092	RE49-10-5800	11/23/2009	1437	6	18	10.01	28.74
49-610093	RE49-10-5801	11/23/2009	1444	0	6	16.44	35.11
49-610093	RE49-10-5802	11/23/2009	1446	6	18	16.26	30.93
49-610094	RE49-10-5803	11/23/2009	1448	0	6	18.11	30.01
49-610094	RE49-10-5804	11/23/2009	1450	6	18	9.56	21.45
49-610095	RE49-10-5805	11/23/2009	1415	0	6	9.20	22.42
49-610095	RE49-10-5806	11/23/2009	1417	6	18	12.19	22.92
49-610096	RE49-10-5807	11/23/2009	1420	0	6	15.20	32.39
49-610096	RE49-10-5808	11/23/2009	1423	6	18	18.99	24.46
49-610097	RE49-10-5809	11/23/2009	1425	0	6	12.18	31.25
49-610097	RE49-10-5810	11/23/2009	1428	6	18	19.56	33.78

Table D-36
Corridor 3 Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609996	RE49-10-5547	11/23/2009	1200	0	6	15.02	19.67
49-609996	RE49-10-5548	11/23/2009	1202	6	18	8.01	27.56
49-609997	RE49-10-5549	11/23/2009	1202	0	6	5.97	17.68
49-609997	RE49-10-5550	11/23/2009	1204	6	18	9.70	20.52
49-609998	RE49-10-5551	11/23/2009	1204	0	6	6.45	22.56
49-609998	RE49-10-5552	11/23/2009	1205	6	18	5.55	27.05
49-609999	RE49-10-5553	11/23/2009	1144	0	6	3.75	26.29
49-609999	RE49-10-5554	11/23/2009	1146	6	18	17.45	29.45
49-610000	RE49-10-5555	11/23/2009	1147	0	6	12.59	26.46
49-610000	RE49-10-5556	11/23/2009	1149	6	18	7.74	18.75
49-610001	RE49-10-5557	11/23/2009	1146	0	6	1.93	10.45
49-610001	RE49-10-5558	11/23/2009	1148	6	18	2.04	21.22
49-610002	RE49-10-5559	11/23/2009	1125	0	6	6.53	26.29
49-610002	RE49-10-5560	11/23/2009	1127	6	18	5.05	21.09
49-610003	RE49-10-5561	11/23/2009	1132	0	6	1.71	17.72
49-610003	RE49-10-5562	11/23/2009	1134	6	18	9.47	17.28
49-610004	RE49-10-5563	11/23/2009	1126	0	6	7.22	16.45
49-610004	RE49-10-5564	11/23/2009	1128	6	18	5.72	9.45
49-610005	RE49-10-5565	11/23/2009	1100	0	6	16.47	24.27
49-610005	RE49-10-5566	11/23/2009	1102	6	18	13.28	20.50
49-610006	RE49-10-5567	11/23/2009	1105	0	6	17.88	23.67
49-610006	RE49-10-5568	11/23/2009	1107	6	18	10.95	17.04
49-610007	RE49-10-5569	11/23/2009	1109	0	6	11.39	25.17
49-610007	RE49-10-5570	11/23/2009	1111	6	18	9.64	20.17
49-610008	RE49-10-5571	11/23/2009	1038	0	6	12.12	29.34
49-610008	RE49-10-5572	11/23/2009	1040	6	18	9.02	24.97
49-610009	RE49-10-5573	11/23/2009	1042	0	6	16.56	22.04
49-610009	RE49-10-5574	11/23/2009	1044	6	18	16.46	29.80
49-610010	RE49-10-5575	11/23/2009	1046	0	6	7.36	19.95
49-610010	RE49-10-5576	11/23/2009	1047	6	18	12.07	19.58
49-610011	RE49-10-5577	11/23/2009	1010	0	6	9.22	24.55
49-610011	RE49-10-5578	11/23/2009	1012	6	18	10.22	17.62
49-610012	RE49-10-5579	11/23/2009	1014	0	6	6.15	26.52
49-610012	RE49-10-5580	11/23/2009	1015	6	18	11.23	21.03
49-610013	RE49-10-5581	11/23/2009	1017	0	6	1.76	24.69

Table D-36 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610013	RE49-10-5582	11/23/2009	1019	6	18	25.28	27.63
49-610014	RE49-10-5583	11/23/2009	935	0	6	3.24	25.66
49-610014	RE49-10-5584	11/23/2009	936	6	18	4.01	32.90
49-610015	RE49-10-5585	11/23/2009	943	0	6	5.14	32.89
49-610015	RE49-10-5586	11/23/2009	945	6	18	12.46	29.44
49-610016	RE49-10-5587	11/23/2009	950	0	6	24.85	28.04
49-610016	RE49-10-5588	11/23/2009	952	6	18	6.38	34.07
49-610017	RE49-10-5589	11/20/2009	1400	0	6	8.31	31.52
49-610017	RE49-10-5590	11/20/2009	1402	6	18	7.77	44.68
49-610018	RE49-10-5591	11/20/2009	1404	0	6	6.26	27.53
49-610018	RE49-10-5592	11/20/2009	1406	6	18	9.06	27.77
49-610019	RE49-10-5593	11/20/2009	1408	0	6	9.53	31.15
49-610019	RE49-10-5594	11/20/2009	1410	6	18	22.99	45.63
49-610020	RE49-10-5595	11/20/2009	1538	0	6	6.12	34.76
49-610020	RE49-10-5596	11/20/2009	1540	6	18	7.83	33.81
49-610021	RE49-10-5597	11/20/2009	1545	0	6	8.20	27.34
49-610021	RE49-10-5598	11/20/2009	1547	6	18	11.21	29.96
49-610022	RE49-10-5599	11/20/2009	1549	0	6	13.41	31.56
49-610022	RE49-10-5600	11/20/2009	1551	6	18	14.01	23.68
49-610023	RE49-10-5601	11/20/2009	1453	0	6	6.21	17.54
49-610023	RE49-10-5602	11/20/2009	1455	6	18	11.28	31.31
49-610024	RE49-10-5603	11/20/2009	1512	0	6	14.47	36.08
49-610024	RE49-10-5604	11/20/2009	1514	6	18	8.01	26.51
49-610025	RE49-10-5605	11/20/2009	1516	0	6	3.91	25.71
49-610025	RE49-10-5606	11/20/2009	1518	6	18	17.40	27.86
49-610026	RE49-10-5607	11/20/2009	1420	0	6	11.80	32.93
49-610026	RE49-10-5608	11/20/2009	1422	6	18	8.03	26.94
49-610027	RE49-10-5609	11/20/2009	1444	0	6	3.96	27.51
49-610027	RE49-10-5610	11/20/2009	1446	6	18	17.54	33.68
49-610028	RE49-10-5611	11/20/2009	1448	0	6	3.88	29.12
49-610028	RE49-10-5612	11/20/2009	1450	6	18	9.40	37.47
49-610029	RE49-10-5613	11/20/2009	1402	0	6	8.18	32.81
49-610029	RE49-10-5614	11/20/2009	1404	6	18	–2.46	21.09
49-610030	RE49-10-5615	11/20/2009	1412	0	6	13.53	29.34
49-610030	RE49-10-5616	11/20/2009	1414	6	18	5.36	28.60
49-610031	RE49-10-5617	11/20/2009	1416	0	6	24.81	30.27
49-610031	RE49-10-5618	11/20/2009	1418	6	18	24.81	30.27

Table D-37
Corridor 4 Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610032	RE49-10-5649	11/20/2009	1023	0	6	15.20	36.83
49-610032	RE49-10-5650	11/20/2009	1025	6	18	14.23	27.95
49-610033	RE49-10-5651	11/20/2009	1030	0	6	17.34	34.25
49-610033	RE49-10-5652	11/20/2009	1032	6	18	2.61	22.18
49-610034	RE49-10-5653	11/20/2009	1035	0	6	7.77	32.57
49-610034	RE49-10-5654	11/20/2009	1037	6	18	3.58	22.03
49-610035	RE49-10-5655	11/20/2009	943	0	6	–0.36	20.40
49-610035	RE49-10-5656	11/20/2009	945	6	18	14.22	24.27
49-610036	RE49-10-5657	11/20/2009	950	0	6	7.38	24.36
49-610036	RE49-10-5658	11/20/2009	950	6	18	6.84	30.73
49-610037	RE49-10-5659	11/20/2009	1000	0	6	9.14	29.84
49-610037	RE49-10-5660	11/20/2009	1002	6	18	14.12	26.25
49-610038	RE49-10-5661	11/20/2009	910	0	6	6.24	17.24
49-610038	RE49-10-5662	11/20/2009	912	6	18	6.75	23.90
49-610039	RE49-10-5663	11/20/2009	916	0	6	8.81	31.37
49-610039	RE49-10-5664	11/20/2009	916	6	18	11.73	21.12
49-610040	RE49-10-5665	11/20/2009	920	0	6	14.80	33.20
49-610040	RE49-10-5666	11/20/2009	922	6	18	21.54	30.72
49-610041	RE49-10-5667	11/20/2009	854	0	6	14.40	24.76
49-610041	RE49-10-5668	11/20/2009	856	6	18	2.28	28.62
49-610042	RE49-10-5669	11/20/2009	900	0	6	5.58	18.30
49-610042	RE49-10-5670	11/20/2009	902	6	18	7.26	23.95
49-610043	RE49-10-5671	11/20/2009	904	0	6	7.88	32.26
49-610043	RE49-10-5672	11/20/2009	906	6	18	23.87	31.60
49-610044	RE49-10-5673	11/20/2009	836	0	6	6.96	27.29
49-610044	RE49-10-5674	11/20/2009	838	6	18	8.12	18.94
49-610045	RE49-10-5675	11/20/2009	841	0	6	1.72	14.18
49-610045	RE49-10-5676	11/20/2009	843	6	18	17.65	17.00
49-610046	RE49-10-5677	11/20/2009	847	0	6	14.23	32.46
49-610046	RE49-10-5678	11/20/2009	849	6	18	14.54	21.82
49-610047	RE49-10-5679	11/20/2009	815	0	6	7.13	34.34
49-610047	RE49-10-5680	11/20/2009	817	6	18	8.28	17.50
49-610048	RE49-10-5681	11/20/2009	820	0	6	4.38	32.64
49-610048	RE49-10-5682	11/20/2009	822	6	18	2.44	20.74
49-610049	RE49-10-5683	11/20/2009	827	0	6	–0.12	21.19

Table D-37 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610049	RE49-10-5684	11/20/2009	829	6	18	3.56	17.76
49-610050	RE49-10-5685	11/20/2009	1044	0	6	4.18	19.72
49-610050	RE49-10-5686	11/20/2009	1046	6	18	9.65	31.60
49-610051	RE49-10-5687	11/20/2009	1050	0	6	8.42	25.62
49-610051	RE49-10-5688	11/20/2009	1052	6	18	2.67	25.69
49-610052	RE49-10-5689	11/20/2009	1054	0	6	25.07	27.74
49-610052	RE49-10-5690	11/20/2009	1056	6	18	0.28	26.34
49-610053	RE49-10-5691	11/20/2009	1056	0	6	–3.86	23.96
49-610053	RE49-10-5692	11/20/2009	1058	6	18	4.72	26.51
49-610054	RE49-10-5693	11/20/2009	1108	0	6	16.38	25.87
49-610054	RE49-10-5694	11/20/2009	1110	6	18	1.55	33.39
49-610055	RE49-10-5695	11/20/2009	1117	0	6	19.80	45.76
49-610055	RE49-10-5696	11/20/2009	1119	6	18	1.76	22.95
49-610056	RE49-10-5697	12/7/2009	950	0	6	2.61	19.10
49-610056	RE49-10-5698	12/7/2009	952	6	18	0.16	23.81
49-610057	RE49-10-5699	11/20/2009	1158	0	6	20.18	18.40
49-610057	RE49-10-5700	11/20/2009	1200	6	18	–1.24	17.82
49-610058	RE49-10-5701	11/20/2009	1205	0	6	13.61	31.54
49-610058	RE49-10-5702	11/20/2009	1207	6	18	8.14	16.11
49-610059	RE49-10-5703	12/7/2009	928	0	6	11.90	31.57
49-610059	RE49-10-5704	12/7/2009	930	6	18	2.54	21.13
49-610060	RE49-10-5705	12/7/2009	932	0	6	13.91	18.16
49-610060	RE49-10-5706	12/7/2009	934	6	18	7.95	18.03
49-610061	RE49-10-5707	12/7/2009	936	0	6	9.16	26.61
49-610061	RE49-10-5708	12/7/2009	939	6	18	10.90	27.83
49-610062	RE49-10-5709	12/7/2009	910	0	6	1.62	28.06
49-610062	RE49-10-5710	12/7/2009	913	6	18	20.37	22.03
49-610063	RE49-10-5711	12/7/2009	918	0	6	12.54	34.83
49-610063	RE49-10-5712	12/7/2009	922	6	18	7.18	19.68
49-610064	RE49-10-5713	12/7/2009	923	0	6	6.15	30.50
49-610064	RE49-10-5714	12/7/2009	926	6	18	9.32	21.24
49-610065	RE49-10-5715	12/7/2009	900	0	6	–5.32	27.74
49-610065	RE49-10-5716	12/7/2009	903	6	18	11.25	34.27
49-610066	RE49-10-5717	12/7/2009	850	0	6	9.05	23.86
49-610066	RE49-10-5718	12/7/2009	855	6	18	14.91	22.68
49-610067	RE49-10-5719	12/7/2009	904	0	6	–0.49	24.24
49-610067	RE49-10-5720	12/7/2009	907	6	18	12.45	29.05

Table D-38
Corridor Stepout Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-611035	RE49-10-10862	1/29/2010	1148	0	6	9.08	24.19
49-611035	RE49-10-10863	1/29/2010	1151	6	18	13.17	16.71
49-611036	RE49-10-10864	1/29/2010	1147	0	6	14.97	35.18
49-611036	RE49-10-10865	1/29/2010	1154	6	18	4.79	17.51
49-611037	RE49-10-10866	1/29/2010	1132	0	6	3.89	23.26
49-611037	RE49-10-10867	1/29/2010	1136	6	18	14.45	24.08
49-611038	RE49-10-10868	1/29/2010	1145	0	6	21.22	28.82
49-611038	RE49-10-10869	1/29/2010	1149	6	18	11.02	22.04
49-611039	RE49-10-10870	1/29/2010	1110	0	6	4.66	25.44
49-611039	RE49-10-10871	1/29/2010	1114	6	18	6.52	17.19
49-611040	RE49-10-10872	1/29/2010	1117	0	6	–0.21	20.90
49-611040	RE49-10-10873	1/29/2010	1122	6	18	7.16	12.03
49-611041	RE49-10-10874	1/29/2010	1126	0	6	4.11	16.47
49-611041	RE49-10-10875	1/29/2010	1130	6	18	6.11	18.45
49-611025	RE49-10-10838	1/29/2010	1352	0	6	14.89	23.91
49-611025	RE49-10-10839	1/29/2010	1355	6	18	5.53	19.99
49-611026	RE49-10-10840	1/29/2010	1403	0	6	2.49	20.61
49-611026	RE49-10-10841	1/29/2010	1408	6	18	7.00	26.68
49-611027	RE49-10-10842	1/29/2010	1406	0	6	12.02	25.24
49-611027	RE49-10-10843	1/29/2010	1411	6	18	0.16	12.74
49-611028	RE49-10-10844	1/29/2010	1411	0	6	–0.72	21.80
49-611028	RE49-10-10845	1/29/2010	1415	6	18	–2.34	11.55
49-611029	RE49-10-10846	1/29/2010	1350	0	6	10.01	20.49
49-611029	RE49-10-10847	1/29/2010	1355	6	18	7.57	13.56
49-611030	RE49-10-10850	1/29/2010	950	0	6	17.61	26.12
49-611030	RE49-10-10851	1/29/2010	955	6	18	6.01	24.35
49-611031	RE49-10-10852	1/29/2010	948	0	6	19.08	29.03
49-611031	RE49-10-10853	1/29/2010	952	6	18	8.17	22.57
49-611032	RE49-10-10854	1/29/2010	1010	0	6	9.00	27.86
49-611032	RE49-10-10855	1/29/2010	1015	6	18	17.80	36.15
49-611033	RE49-10-10856	1/29/2010	1011	0	6	15.70	23.40
49-611033	RE49-10-10857	1/29/2010	1014	6	18	15.35	24.79
49-611034	RE49-10-10858	1/29/2010	1020	0	6	1.38	23.38
49-611034	RE49-10-10859	1/29/2010	1024	6	18	3.58	16.45

Table D-39
SWMU 49-001(g) Category II Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610890	RE49-10-8552	12/17/2009	843	0	6	21.23	23.13
49-610890	RE49-10-8553	12/17/2009	847	6	18	9.46	22.47
49-610891	RE49-10-8554	12/17/2009	1430	0	6	10.28	17.12
49-610891	RE49-10-8555	12/17/2009	1435	6	18	12.93	21.77

Table D-40
SWMU 49-001(g) Category II Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610898	RE49-10-8568	12/18/2009	920	0	6	7.34	25.82
49-610898	RE49-10-8569	12/18/2009	925	6	18	11.82	25.32
49-610899	RE49-10-8570	12/18/2009	833	0	6	4.96	26.16
49-610899	RE49-10-8571	12/18/2009	837	6	18	5.41	11.62
49-610900	RE49-10-8572	12/17/2009	1139	0	6	9.41	32.48
49-610900	RE49-10-8573	12/17/2009	1144	6	18	1.86	21.94
49-610901	RE49-10-8574	12/17/2009	833	0	6	6.95	19.31
49-610901	RE49-10-8575	12/17/2009	837	6	18	9.69	21.81
49-610902	RE49-10-8576	12/17/2009	851	0	6	9.35	28.44
49-610902	RE49-10-8577	12/17/2009	855	6	18	1.58	28.46
49-610903	RE49-10-8578	12/17/2009	901	0	6	1.23	17.65
49-610903	RE49-10-8579	12/17/2009	905	6	18	–1.32	36.36
49-610904	RE49-10-8580	12/17/2009	1420	0	6	23.10	24.45
49-610904	RE49-10-8581	12/17/2009	1425	6	18	8.27	30.00
49-610905	RE49-10-8582	12/17/2009	1455	0	6	5.19	18.22
49-610905	RE49-10-8583	12/17/2009	1500	6	18	9.94	39.06
49-610906	RE49-10-8584	12/18/2009	856	0	6	15.88	17.77
49-610906	RE49-10-8585	12/18/2009	859	6	18	8.53	21.66
49-610907	RE49-10-8586	12/18/2009	909	0	6	15.92	16.26
49-610907	RE49-10-8587	12/18/2009	912	6	18	11.45	37.04

Table D-41
SWMU 49-001(g) Category III Biased Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610892	RE49-10-8556	12/17/2009	931	0	6	11.36	18.75
49-610892	RE49-10-8557	12/17/2009	935	6	18	11.09	32.83
49-610893	RE49-10-8558	12/17/2009	1101	0	6	5.90	28.82
49-610893	RE49-10-8559	12/17/2009	1106	6	18	5.63	18.18
49-610894	RE49-10-8560	12/17/2009	1100	0	6	8.30	34.20
49-610894	RE49-10-8561	12/17/2009	1105	6	18	1.70	36.57
49-610895	RE49-10-8562	12/17/2009	940	0	6	–2.56	16.58
49-610895	RE49-10-8563	12/17/2009	944	6	18	10.12	16.69
49-610896	RE49-10-8564	12/17/2009	1446	0	6	15.28	34.58
49-610896	RE49-10-8565	12/17/2009	1450	6	18	12.63	30.27
49-610897	RE49-10-8566	12/18/2009	818	0	6	3.20	19.13
49-610897	RE49-10-8567	12/18/2009	820	6	18	6.08	20.73

Table D-42
SWMU 49-001(g) Category III Screening Sample Information and Field-Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610908	RE49-10-8588	12/18/2009	953	0	6	6.24	31.72
49-610908	RE49-10-8589	12/18/2009	856	6	18	5.66	18.87
49-610909	RE49-10-8590	12/18/2009	948	0	6	16.73	30.49
49-610909	RE49-10-8591	12/18/2009	953	6	18	–2.03	24.98
49-610910	RE49-10-8592	12/17/2009	919	0	6	11.54	22.89
49-610910	RE49-10-8593	12/17/2009	924	6	18	6.08	23.43
49-610911	RE49-10-8594	12/17/2009	1101	0	6	11.02	25.04
49-610911	RE49-10-8595	12/17/2009	1106	6	18	12.14	26.69
49-610912	RE49-10-8596	12/17/2009	1036	0	6	4.67	26.09
49-610912	RE49-10-8597	12/17/2009	1040	6	18	–2.76	32.34
49-610913	RE49-10-8598	12/17/2009	1014	0	6	1.61	26.84
49-610913	RE49-10-8599	12/17/2009	1018	6	18	3.00	35.33
49-610914	RE49-10-8600	12/17/2009	931	0	6	13.39	36.97
49-610914	RE49-10-8601	12/17/2009	935	6	18	6.23	25.82
49-610915	RE49-10-8602	12/17/2009	1142	0	6	13.36	25.22
49-610915	RE49-10-8603	12/17/2009	1146	6	18	9.32	26.57
49-610916	RE49-10-8604	12/17/2009	1328	0	6	21.09	27.47

Table D-42 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610916	RE49-10-8605	12/17/2009	1334	6	18	3.85	26.03
49-610917	RE49-10-8606	12/17/2009	1329	0	6	7.89	33.66
49-610917	RE49-10-8607	12/17/2009	1346	6	18	14.96	37.32
49-610918	RE49-10-8608	12/17/2009	1343	0	6	3.97	22.83
49-610918	RE49-10-8609	12/17/2009	1346	6	18	3.75	31.13
49-610919	RE49-10-8610	12/17/2009	1349	0	6	4.16	27.11
49-610919	RE49-10-8611	12/17/2009	1354	6	18	4.22	15.18
49-610920	RE49-10-8612	12/17/2009	1350	0	6	4.15	10.25
49-610920	RE49-10-8613	12/17/2009	1355	6	18	10.91	26.35
49-610921	RE49-10-8614	12/17/2009	1357	0	6	4.18	30.57
49-610921	RE49-10-8615	12/17/2009	1403	6	18	14.46	29.91
49-610922	RE49-10-8616	12/17/2009	1410	0	6	3.36	37.46
49-610922	RE49-10-8617	12/17/2009	1412	6	18	3.98	27.62
49-610923	RE49-10-8618	12/17/2009	1440	0	6	11.46	29.19
49-610923	RE49-10-8619	12/17/2009	1443	6	18	–0.54	29.19
49-610924	RE49-10-8620	12/17/2009	1447	0	6	2.00	19.18
49-610924	RE49-10-8621	12/17/2009	1450	6	18	5.44	24.44
49-610925	RE49-10-8622	12/17/2009	1526	0	6	12.47	25.29
49-610925	RE49-10-8623	12/17/2009	1530	6	18	11.61	20.86
49-610926	RE49-10-8624	12/17/2009	1545	0	6	10.05	29.09
49-610926	RE49-10-8625	12/17/2009	1550	6	18	24.01	24.80
49-610927	RE49-10-8626	12/17/2009	1555	0	6	5.00	19.34
49-610927	RE49-10-8627	12/17/2009	1558	6	18	5.68	19.82
49-610928	RE49-10-8628	12/17/2009	1616	0	6	9.74	31.83
49-610928	RE49-10-8629	12/17/2009	1630	6	18	21.31	23.39
49-610929	RE49-10-8630	12/18/2009	823	0	6	8.48	23.26
49-610929	RE49-10-8631	12/18/2009	826	6	18	2.18	23.15
49-610930	RE49-10-8632	12/18/2009	830	0	6	8.82	33.31
49-610930	RE49-10-8633	12/18/2009	834	6	18	17.17	21.11
49-610931	RE49-10-8634	12/18/2009	845	0	6	8.17	18.43
49-610931	RE49-10-8635	12/18/2009	850	6	18	5.75	15.42
49-610932	RE49-10-8636	12/18/2009	859	0	6	10.15	25.71
49-610932	RE49-10-8637	12/18/2009	901	6	18	16.99	22.12
49-610933	RE49-10-8638	12/18/2009	903	0	6	11.65	20.79
49-610933	RE49-10-8639	12/18/2009	908	6	18	10.32	22.97
49-610934	RE49-10-8640	12/18/2009	935	0	6	3.83	23.33
49-610934	RE49-10-8641	12/18/2009	940	6	18	8.21	26.66
49-610935	RE49-10-8642	12/18/2009	945	0	6	8.94	20.61

Table D-42 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-610935	RE49-10-8643	12/18/2009	950	6	18	14.73	37.16
49-610936	RE49-10-8644	12/18/2009	955	0	6	0.21	22.56
49-610936	RE49-10-8645	12/18/2009	1000	6	18	18.43	29.99

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610946	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC		

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	4.2/5	α: 104 β: 2260 PID: 0.0	1.7-3.7 ft bgs RE49-10-9047	0-1.7' CL, brown (7.5YR4/4), dense, very plastic, moist, well sorted 1.7-4.2' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 4.2-5' No recovery	Qbt4	1.7' Soil/tuff interface
5 6 7 8 9	5/5	α: 91 β: 2510 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	3/5	α: NR β: NR PID: 0.0		10-13' Tuff; SAA 13-15' No recovery	Qbt4 NR	
15 16 17 18 19	5/5	α: 18 β: 2010 PID: 0.0		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	5/5	α: 56 β: 1663 PID: 0.3		20-25' Tuff; SAA	Qbt4	
25 26 27 28 29	5/5	α: 42 β: 1716 PID: 0.3		25-30' Tuff; SAA	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610946	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC		

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 37 β: 1955 PID: 0.2		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 18 β: 2120 PID: 0.2		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 28 β: 2020 PID: 0.2		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 33 β: 1979 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 42 β: 1938 PID: 0.0		50-55' Qbt4, light gray (7.5YR7/10, non-weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		
55 56 57 58 59	5/5	α: 52 β: 2180 PID: 0.0		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610946	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC		

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 23 β: 2020 PID: 0.0		60-65' Tuff; SAA	Qbt4	
65 66 67 68 69	5/5	α: 37 β: 2000 PID: 0.0		65-68.5' Tuff; SAA 68.5' Surge bed 68.5-70' Tuff; SAA		Surge bed at 68.5 ft bgs
70 71 72 73 74	3.5/5	α: 42 β: 2160 PID: 0.0	72-74 ft bgs RE49-10-9051	70-72.5' Surge bed, evidence of clays 72.5' Qbt3 73.5-75.0' No recovery	NR	72.5' Qbt4/Qbt3 boundary
75 76 77 78 79	5/5	α: 28 β: 2050 PID: 0.0		75-80' Qbt3, white (7.5YR8/10, non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 30-40% phenocrysts	Qbt3	
80 81 82 83 84	5/5	α: 33 β: 1920 PID: 0.0		80-85' Tuff; SAA		
85 86 87 88 89	5/5	α: 9 β: 2040 PID: 0.0	85-87 ft bgs RE49-10-9052	85-90' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610946	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC		

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90	2.6/5				Qbt3	
91		α: 28		90-92.6' Tuff; SAA		
92		β: 2090				
93		PID: 0.0		92.6-95' No recovery	NR	
94						
95	2.8/5			95-97.8' Tuff; SAA	Qbt3	
96		α: 37				
97		β: 2340			NR	
98		PID: 0.0		97.8-100' No recovery		
99						
100	5/5				Qbt3	
101		α: 28				
102		β: 1802		100-105' No recovery		
103		PID: 0.0				
104						
105	4.2/5					
106		α: 42		105-109.2' Tuff; SAA		
107		β: 1979				
108		PID: 0.0				
109				109.2-110' No recovery	NR	
110	5/5				Qbt3	
111		α: 47				
112		β: 1809		110-115' Tuff; SAA		
113		PID: 0.0				
114						
115	5/5					
116		α: 28				
117		β: 2260		115-120' Tuff; SAA		
118		PID: 0.0				
119						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610946	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC		

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120	5/5				Qbt3	
121		α: 47				
122		β: 2260		120-125' Tuff; SAA		
123		PID: 0.0				
124						
125	5/5					
126		α: 9				
127		β: 1850		125-130' Tuff; SAA		
128		PID: 0.0				
129						
130	5/5					
131		α: 28				
132		β: 1611		130-135' Tuff; SAA		
133		PID: 0.0	133-135 ft bgs			
134			RE49-10-9053			
135						**TOTAL DEPTH: 135 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610947	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	4.2/5	α: 98 β: 2360 PID: 0.0	2.5-4.2 ft bgs RE49-10-9049	0-2.5' ML with silt, brown (7.5YR4/4), loose, non-plastic, dry, well sorted 2.5-4.2' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 4.2-5' No recovery	SOIL	2.5 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 52 β: 2470 PID: 0.0		5-10' Tuff; SAA with fractures	Qbt4	
10 11 12 13 14	5/5	α: 28 β: 1897 PID: 0.2		10-12.4' Slough 12.4-15' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		
15 16 17 18 19	5/5	α: 37 β: 1862 PID: 0.0		15-20' Tuff; SAA		
20 21 22 23 24	5/5	α: 37 β: 1739 PID: 0.0		20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 28 β: 1821 PID: 0.0		25-30' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610947	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 23 β: 2100 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 23 β: 1856 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 33 β: 1856 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 28 β: 1979 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 14 β: 1879 PID: 0.0		50-55' Tuff; SAA		
55 56 57 58 59	5/5	α: 23 β: 1926 PID: 0.0		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610947	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	2.5/5	α: 14 β: 1990		60-62.5' Tuff; SAA 62.5-65' No recovery	NR	
65 66 67 68 69	5/5	α: 37 β: 1926 PID: 0.0		65-70' Tuff; SAA	Qbt4	
70 71 72 73 74	5/5	α: 9 β: 2090 PID: 0.0		70-75' Tuff; SAA with decreasing pumices		
75 76 77 78 79	2.7/5	α: 9 β: 1877 PID: 0.0	76.7-77.7 ft bgs RE49-10-9063	75-76.7' Tuff; SAA 76.7-77.7' Qbt 3, light gray (7.5YR7/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 77.7-80' No recovery	Qbt3 NR	
80 81 82 83 84	5/5	α: 14 β: 1844 PID: 0.0		80-85' Tuff; SAA	Qbt3	
85 86 87 88 89	5/5	α: 28 β: 1990 PID: 0.0	85-87 ft bgs RE49-10-9064	85-90' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610947	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	4.5/5	α: 23 β: 1961 PID: 0.0		90-94.5' Tuff; SAA 94.5-95' No recovery	Qbt3	
95 96 97 98 99	2.7/5	α: 37 β: 1984 PID: 0.0		95-97.5' Tuff; SAA 97.5-100' No recovery	NR	
100 101 102 103 104	2.7/5	α: 18 β: 2070 PID: 0.0		100-102.7' Tuff; SAA 102.7-105' No recovery		
105 106 107 108 109	1.5/5	α: 28 β: 1862 PID: 0.0		105-106.5' Tuff; SAA 106.5-110' No recovery	Qbt3	
110 111 112 113 114	2.6/5	α: 23 β: 1914 PID: 0.0		110-112.6' Tuff; SAA 112.6-115' No recovery	NR	
115 116 117 118 119	2.8/5	α: 28 β: 2130 PID: 0.0		115-117.8' Tuff; SAA 117.8-120' No recovery		Background: α: 33 dpm β: 2480 dpm

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610947	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:100 dpm	β BV: 2680 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120	5/5				Qbt3	
121		α: 33				
122		β: 1862		120-125' Tuff; SAA		
123		PID: 0.2				
124						
125	5/5					
126		α: 14				
127		β: 1903		125-130' Tuff; SAA		
128		PID: 0.0				
129						
130	5/5					
131		α: 37				
132		β: 1979		130-135' Tuff; SAA		
133		PID: 0.0	133-135 ft bgs			
134			RE49-10-9066			
135						**TOTAL DEPTH: 135 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610948	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/20/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 98 dpm	β BV: 2370 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	5/5	α: 81 β: 2150 PID: 0.0	4-6 ft bgs RE49-10-9050	0-3' CL with sand (strong brown (7.5YR5/6), dense, moist, well sorted 3-5' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% pumices, 40-50% ashy matrix, 30-40% phenocrysts	SOIL Qbt4	3' Soil/tuff interface
5 6 7 8 9	5/5	α: 78 β: 2340 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	2.3/5	α: 23 β: 1868 PID: 0.0		10-11' Fill 11-12.3' Qbt4; SAA 12.3-15' No recovery	Qbt4 NR	01/19/10 Background: α: 18 dpm β: 2200 dpm
15 16 17 18 19	5/5	α: 14 β: 1844 PID: 0.0		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	5/5	α: 14 β: 2000 PID: 0.0		20-25' Tuff; SAA	Qbt4	
25 26 27 28 29	5/5	α: 33 β: 2000 PID: 0.0		25-30' Qbt4, white (7.5YR8/1), non-weathered, non-welded, 5-8% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610948	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/20/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 98 dpm	β BV: 2370 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 9 β: 1938 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 28 β: 1698 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 28 β: 2090 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 18 β: 2010 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 28 β: 2030 PID: 0.0		50-55' Tuff; SAA		
55 56 57 58 59	4.5/5	α: 14 β: 1909 PID: 0.0		55-59.5' Tuff; SAA 59.5-60' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610948	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/20/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 98 dpm	β BV: 2370 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60	4.5/5					
61		α: 14		60-64.5' Tuff; SAA		
62		β: 2070				
63		PID: 0.0				
64				64.5-65' No recovery		
65	5/5				Qbt4	
66		α: 14				
67		β: 1955		65-70' Tuff; SAA with increased welding		
68		PID: 0.0				
69						
70	3/5					
71		α: 4		70-73' Tuff; SAA		
72		β: 1833				
73				73-75' No recovery	NR	
74						
75	5/5			75-76' Tuff; SAA		
76		α: 18		76-76.6' Surge bed		
77		β: 2020	77-81 ft bgs	76.6-80' Qbt3, light gray (7.5YR7/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts	Qbt3	76.6 ft bgs Qbt3
78		PID: 0.0	RE49-10-9057			
79			RE49-10-9076			
80	3.6/5					
81		α: 42		80-83.6' Tuff; SAA		Background:
82		β: 1862				α: 35 dpm
83				83.6-85' No recovery	NR	β: 2110 dpm
84						
85	3/5		85-87 ft bgs			
86		α: 23	RE49-10-9058			
87		β: 2060		85-90' Tuff; SAA		
88		PID: 0.0			NR	
89						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610948	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/20/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 98 dpm	β BV: 2370 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	3.5/5	α: 18 β: 1932 PID: 0.0		90-93.5' Tuff; SAA 93.5-95' No recovery	NR	
95 96 97 98 99	3.5/5	α: 28 β: 1979 PID: 0.0		95-98.5' Tuff; SAA 98.5-100' No recovery	NR	
100 101 102 103 104	3.3/5	α: 9 β: 2040 PID: 0.0		100-103.3' Tuff; SAA 103.3-105' No recovery	Qbt3 NR	
105 106 107 108 109	3.5/5	α: 4 β: 2200 PID: 0.0		105-108.5' Tuff; SAA 108.5-110' No recovery	NR	
110 111 112 113 114	3.4/5	α: 18 β: 2050 PID: 0.0		110-113.4' Tuff; SAA 113.4-115' No recovery	NR	
115 116 117 118 119	3.7/5	α: 9 β: 2010 PID: 0.0		115-118.7' Tuff; SAA 118.7-120' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610948	TA: 49-001 (a)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/20/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 98 dpm	β BV: 2370 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120	3.7/5				Qbt3	
121		α: 14		120-123.7' Tuff; SAA		
122		β: 1944				
123		PID: 0.0			NR	
124				123.7-125' No recovery		
125	3.4/5					
126		α: 9		125-128.4' Tuff; SAA		
127		β: 2070				
128		PID: 0.0			NR	
129				128.4-130' No recovery		
130	5/5					
131		α: 4	133-135 ft bgs			
132		β: 2090	RE49-10-9059	130-135' Tuff; SAA		
133		PID: 0.0				
134						
135						TOTAL DEPTH: 135 FT BGS

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610949 TA: 49-001 (a)	0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.8/5	α: 65 β: 2560 PID: 0.0	2-3.8 ft bgs RE49-10-9048	0-2' ML with silt, strong brown (7.5YR5/6), loose, non-plastic, dry, well sorted 2-3.8' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumice, 40-50% ashy matrix, 30-40% phenocrysts 3.8-5.0' No recovery	SOIL	2' Soil/tuff interface
5 6 7 8 9	5/5	α: 65 β: 2390 PID: 0.0		5-10' Tuff; SAA		
10 11 12 13 14	5/5	α: 14 β: 1920 PID: 0.0		10-15' Tuff; SAA		Background: α: 23 dpm β: 2480 dpm
15 16 17 18 19	5/5	α: 23 β: 1763 PID: 0.0		15-20' Tuff; SAA		
20 21 22 23 24	5/5	α: 28 β: 1903 PID: 0.0		20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 23 β: 2110 PID: 0.0		25-30' Qbt4, white (7.5YR8/1), non-weathered, non-welded, 5-8% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610949 TA: 49-001 (a)	0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 23 β: 1909 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 18 β: 2150 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 23 β: 1955 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 9 β: 1984 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 23 β: 2210 PID: 0.0		50-55' Tuff; SAA		
55 56 57 58 59	5/5	α: 37 β: 2020 PID: 0.0		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610949 TA: 49-001 (a)	0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 4 β: 2160 PID: 0.0		60-65' Tuff; SAA		
65 66 67 68 69	3/5	α: 23 β: 2270 PID: 0.0		65-68' Tuff; SAA with decrease in pumices 68-70' No recovery	NR	
70 71 72 73 74	2.6/5	α: 9 β: 2200 PID: 0.0		70-72.6' Tuff; SAA 72.6-75' No recovery		
75 76 77 78 79	3/5	α: 42 β: 2000 PID: 0.0	76-78 ft bgs RE49-10-9069 RE49-10-9075	75-76' Tuff; SAA 76-78' Qbt3, pinkish gray (7.5YR6/20, non-weathered, non-welded, <5% devitrified pumices, 50-60% ashy matrix, 40-50% phenocrysts 78-80' No recovery	Qbt3 NR	
80 81 82 83 84	3.8/5	α: 18 β: 2020 PID: 0.0		80-83.8' Tuff; SAA 83.8-85' No recovery		
85 86 87 88 89	3.6/5	α: 47 β: 2200 PID: 0.0	85-87 ft bgs RE49-10-9070	85-88.6' Tuff; SAA 88.6-90' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610949 TA: 49-001 (a)	0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	3.5/5	α: 23 β: 2130 PID: 0.0		90-93.5' Tuff; SAA 93.5-95' No recovery		
95 96 97 98 99	5/5	α: 9 β: 2020 PID: 0.0		95-100' Tuff; SAA	Qbt3	
100 101 102 103 104	2.5/5	α: 37 β: 2060 PID: 0.0		100-102.5' Tuff; SAA with increase welding 102.5-105' No recovery	NR	
105 106 107 108 109	3/5	α: 33 β: 2150 PID: 0.0		105-108' Tuff; SAA 108-110' No recovery		
110 111 112 113 114	3.3/5	α: 18 β: 2110 PID: 0.0		110-113.3' Tuff; SAA with minor amounts of dacite 113.3-115' No recovery	NR	
115 116 117 118 119	5/5	α: 33 β: 2150 PID: 0.0		115-120' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610949 TA: 49-001 (a)	0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/16/09	End Date: 01/18/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 100 dpm	β BV: 2680 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler	Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120	5/5				Qbt3	
121		α: 14				
122		β: 2040		120-125' Tuff; SAA		
123		PID: 0.0				
124						
125	5/5					
126		α: 28				
127		β: 2050		125-130' Tuff; SAA		
128		PID: 0.0				
129						
130	5/5					
131		α: 14				
132		β: 2260		130-135' Tuff; SAA		
133		PID: 0.0	133-135 ft bgs			
134			RE49-10-9071			
135						**TOTAL DEPTH: 135 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	2.3/5	α: 85 β: 2140 PID: 0.0		0-1.7' GM silty gravel, (7.5YR3/2), dark brown, loose, non-plastic, moist 1.7-2.3' Weathered tuff, (7.5YR7/1), light grey, granular tuff with silty laminations 2.3-5' No recovery	Fill NR	Base course for road bed
5 6 7 8 9	5/5	α: 78 β: 2120 PID: 0.0	8-10 ft bgs RE49-10-8999	5-5.5' Fill; SAA 5.5-8' CL, fat clays, (7.5YR3/3), dark brown, fat clay, plastic, moist, 75% clay, 25% silt 8-10' Qbt4 tuff, (7.5YR6/1), grey, weathered, moderately welded, 3-5% devitrified pumice, 30-40% phenocrysts, 50% ash matrix		
10 11 12 13 14	5/5	α: 85 β: 2300		10-15' Tuff; SAA		
15 16 17 18 19	5/5	α: 45 β: 2380		15-20' Tuff; SAA		Background: α: 98 dpm β: 2370 dpm
20 21 22 23 24	5/5	α: 52 β: 2330		20-25' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
25 26 27 28 29	5/5	α: 98 β: 2630		25-30' Qbt4, pinkish gray (7.5YR7/2), non-weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
30 31 32 33 34	5/5	α: 91 β: 2610		30-35' Tuff; SAA		
35 36 37 38 39	5/5	α: 91 β: 2630		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 91 β: 2470		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 124 β: 2620		45-50' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
50 51 52 53 54	5/5	α: 65 β: 2710		50-55' Tuff; SAA	Qbt4	
55 56 57 58 59	5/5	α: 98 β: 2650		55-60' Tuff; SAA		
60 61 62 63 64	5/5	α: 91 β: 2670		60-65' Tuff; SAA		
65 66 67 68 69	5/5	α: 98 β: 2610		65-70' Tuff; SAA		
70 71 72 73 74	5/5	α: 39 β: 2640		70-75' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
75 76 77 78 79	5/5	α: 91 β: 2950	77-80 ft bgs RE49-10-9000	75-77' Tuff; SAA 77-79' Surge bed 79-80' Qbt3		Surge bed: 77-79 ft bgs
80 81 82 83 84	5/5	α: 98 β: 2520		80-85' Qbt3, gray (7.5YR6/10, non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts	Qbt3	
85 86 87 88 89	5/5	α: 91 β: 2740		85-90' Tuff; SAA with increased welding		
90 91 92 93 94	5/5	α: 72 β: 2570		90-95' Tuff; SAA		
95 96 97 98 99	5/5	α: 111 β: 2460		95-100' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs		Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
100 101 102 103 104	3.3/5	α: 85 β: 2690 PID: 0.3		100-103.3' Qbt3, gray (7.5YR5/1), non-weathered, very welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 103.3-105' No recovery	NR	
105 106 107 108 109	2.8/5	α: 59 β: 2470 PID: 0.0		105-107.8' Tuff; SAA 107.8-110' No recovery		
110 111 112 113 114	4.1/5	α: 91 β: 2360 PID: 0.0		110-114.1' Tuff; SAA 114.1-115' No recovery		
115 116 117 118 119	3.2/5	α: 28 β: 2040 PID: 0.0		115-118.2' Tuff; SAA 118.2-120' No recovery		
120 121 122 123 124	3.8/5	α: 33 β: 2030 PID: 0.0		120-123.8' Tuff; SAA 123.8-125' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610942	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/06/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
125	3.5/5					
126		α: 42		125-128' Tuff; SAA		
127		β: 2100				
128			128-130 ft bgs	128-130' No recovery	NR	
129			RE49-10-9001			
130						TOTAL DEPTH: 130 FT BGS

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610943	TA: 49-001 (b)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/07/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:118 dpm	β BV: 2410 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	0/5	α: β: PID:		0-5' No recovery; shoe blocked	NR	Base course/ road bed and fill
5 6 7 8 9	.3/5	α: 85 β: 2640 PID: 0.0		5-5.3' Qbt4 tuff, (7.5YR8/1), white, slightly weathered, moderately welded, 2-3% pumice, 70% ash, 25% 5.3-10' No recovery	NR	Tuff only recovered in shoe and core barrel.
10 11 12 13 14	2/5	α: 28 β: 1984 PID: 0.0	10-12 ft bgs RE49-10-9009 RE49-10-9039	10-12' Qbt4, white (7.5YR8/1), weathered, non-welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 12-15' No recovery	Qbt4 NR	Background: α: 59 dpm β: 2990 dpm
15 16 17 18 19	5/5	α: 42 β: 1844 PID: 0.0		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	5/5	α: 23 β: 2050 PID: 0.0		20-25' Tuff; SAA	Qbt4	
25 26 27 28 29	5/5	α: 9 β: 2070 PID: 0.0		25-30' Tuff; SAA	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610943	TA: 49-001 (b)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/07/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:118 dpm	β BV: 2410 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	3.9/5	α: 31 β: 2000		30-33.9' Qbt4, white (7.5YR8/1), non-weathered, lightly welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 33.9-35' No recovery	NR	
35 36 37 38 39	5/5	α: 23 β: 1967 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	4.2/5	α: 33 β: 1877 PID: 0.0		40-42.5' Tuff; SAA 42.5-45' No recovery	NR	
45 46 47 48 49	5/5	α: 4 β: 2000 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 14 β: 2040 PID: 0.3		50-55' Tuff; SAA	Qbt4	
55 56 57 58 59	3.9/5	α: 23 β: 2050 PID: 0.0		55-58.9' Tuff; SAA 58.9-60' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610943	TA: 49-001 (b)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/07/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:118 dpm	β BV: 2410 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	4/5	α: 37 β: 2090 PID: 0.3		60-64' Tuff; SAA 64-65' No recovery	NR	
65 66 67 68 69	5/5	α: 33 β: 1961 PID: 0.1		65-70' Tuff; SAA		
70 71 72 73 74	4.5/5	α: 37 β: 1914 PID: 0.2		70-74.5' Tuff; SAA 74.5-75' No recovery		
75 76 77 78 79	5/5	α: 14 β: 1885 PID: 0.2	78-80 ft bgs RE49-10-9010	75-80' Tuff; SAA	Qbt4	Base of shaft unit
80 81 82 83 84	5/5	α: 18 β: 2120 PID: 0.2		80-85' Qbt3, gray (7.5YR5/1), non-weathered, moderately welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts	Qbt3	
85 86 87 88 89	3/5	α: 28 β: 2230 PID: 0.0		85-88' Tuff; SAA 88-90' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610943	TA: 49-001 (b)	Drill Depth: 0 to 135 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/07/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV:118 dpm	β BV: 2410 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	3.8/5	α: 23 β: 2130 PID: 0.3		90-93.8' Tuff; SAA 93.8-95' No recovery	NR	
95 96 97 98 99	5/5	α: 28 β: 2180 PID: 0.0		95-100' Tuff; SAA	Qbt3	
100 101 102 103 104	5/5	α: 23 β: 1879 PID: 0.0		100-105: Tuff; SAA		
105 106 107 108 109	5/5	α: 28 β: 2140 PID: 0.0		105-110' Tuff; SAA		
110 111 112 113 114	4.5/5	α: 42 β: 2040 PID: 0.0		110-114.5' Tuff; SAA 114.5-115' No recovery		
115 116 117 118 119	5/5	α: 18 β: 2170 PID: 0.0		115-120' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610943	TA: 49-001 (b)	Drill Depth: 0 to 135 ft bgs		Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/09	End Date: 01/07/10		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV:118 dpm	β BV: 2410 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120	5/5				Qbt3	
121		α: 28				
122		β: 2000		120-125' Tuff; SAA		
123		PID: 0.0				
124						
125	5/5					
126		α: 28				
127		β: 1926		125-130' Tuff; SAA		
128			128-130 ft bgs			
129			RE49-10-9011			
130						**TOTAL DEPTH: 130 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10	End Date: 01/08/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Steve Maze, DBS&A	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.9/5				Fill	
1		α: 43		0-3.9' Fill, SM silty sand, brown (7.5YR4/4), loose, non-plastic, dry, poorly sorted		
2		β: 1371				
3		PID: 0.0				
4				3.9-5' No recovery	NR	
5	5/5			5-8' Fill; SAA		
6		α: 33				
7		β: 1687	8-10 ft bgs			
8		PID: 0.0	RE49-10-9019	8-10' Qbt4 tuff, white (7.5YR8/1), weathered, lightly welded, 3-5% pumices, 20% phenocrysts, 75% ash	Qbt4	
9			RE49-10-9040			
10	5/5					
11				10-15' No recovery; Core barrel filled with concrete		
12						
13						
14						
15	2/5			15-17' Qbt4 tuff, white (7.5YR8/1), altered, slightly welded, 1-2% pumice, 0% lithics/phenocrysts, 95% ash		
16		α: 33				
17		β: 1844				
18		PID: 0.0		17-20' No recovery	NR	
19						
20	5/5					
21		α: 43				
22		β: 1862		20-25' Tuff; SAA		
23		PID: 0.0				
24						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10	End Date: 01/08/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Steve Maze, DBS&A	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
25 26 27 28 29	5/5	α: 18 β: 1949 PID: 0.0		25-30' Qbt4, white (7.5YR8/1), lightly welded, 10% pumice, 2-3% phenocrysts, 80-90% ash	Qbt4	
30 31 32 33 34	5/5	α: 14 β: 1827 PID: 0.0		30-35' Tuff; SAA		
35 36 37 38 39	5/5	α: 4 β: 2000 PID: 0.0		35-40' Qbt4 tuff, white (7.5YR8/1), moderately welded, 5% pumice, 20% phenocrysts, 75% ash		
40 41 42 43 44	5/5	α: 9 β: 1990 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	4.5/5	α: 9 β: 3000 PID: 0.0		45-49.5' Tuff; SAA 49.5-50' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10	End Date: 01/08/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Steve Maze, DBS&A	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
50 51 52 53 54	5/5	α: 18 β: 1739 PID: 0.0		50-55' Tuff; SAA	Qbt4	
55 56 57 58 59	5/5	α: 23 β: 2040		55-60' Tuff; SAA		
60 61 62 63 64	4/5	α: 14 β: 1885 PID: 0.0		60-64' Tuff; SAA 64-65' No recovery	NR	
65 66 67 68 69	5/5	α: 23 β: 1780 PID: 0.0		65-70' Tuff; SAA	Qbt4	
70 71 72 73 74	5/5	α: 18 β: 1862 PID: 0.0		70-75' Tuff; SAA with decreasing pumice to no pumice		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10	End Date: 01/08/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Steve Maze, DBS&A	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
75	5/5					
76		α: 28		75-78' Tuff; SAA		
77		β: 1926				
78		PID: 0.0	78-80 ft bgs	78-80' Surge bed		
79			RE49-10-9020			
80	5/5			80-81.2' Surge bed; SAA		
81		α: 47				
82		β: 2030		81.2-85' Qbt3, gray (2.5YR6/1), non-welded, 203% pumice, 45% phenocrysts, 50% ash		
83		PID: 0.0				
84						
85	5/5					
86		α: 23				
87		β: 2040		85-90' Tuff; SAA		
88		PID: 0.0				
89						
90	5/5				Qbt3	
91		α: 23				
92		β: 1944		90-95' Tuff; SAA and moderately welded		
93		PID: 0.0				
94						
95	5/5					
96		α: 14				
97		β: 2020		95-100' Tuff; SAA		
98		PID: 0.0				
99						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10		End Date: 01/08/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 52 dpm	β BV: 2460 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Steve Maze, DBS&A	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
100 101 102 103 104	5/5	α: 18 β: 2290 PID: 0.0		100-105' Tuff; SAA	Qbt3	
105 106 107 108 109	5/5	α: 37 β: 2140 PID: 0.0		105-110' Tuff; SAA		
110 111 112 113 114	5/5	α: 23 β: 1944 PID: 0.0		110-115' Tuff; SAA		
115 116 117 118 119	5/5	α: 14 β: 1938 PID: 0.0		115-120' Tuff; SAA		
120 121 122 123 124	5/5	α: 14 β: 1803 PID: 0.0		120-125' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610944	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 01/07/10		End Date: 01/08/10
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 52 dpm	β BV: 2460 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Steve Maze, DBS&A

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
125	5/5					
126		α: 23				
127		β: 1798		125-130' Tuff; SAA		
128		PID: 0.0	128-130 ft bgs			
129			RE49-10-9021			
130						**TOTAL DEPTH: 130 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610945	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/19	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 85 dpm	β BV: 2340 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.3/5	α: 45 β: 2180 PID: 0.0		0-3.3' SM silty sand (7.5YR4/4), brown, medium dense, non-plastic, damp, poorly sorted 3.3-5' No recovery	SOIL NR	
5 6 7 8 9	5/5	α: 59 β: 2550 PID: 0.0		5-7' Soil; SAA 7-10' Tuff; Qbt4, (7.5YR8/1), white, weathered, poorly welded, 5% pumice devitrified, 70% ashy matrix, 25% phenocrysts		
10 11 12 13 14	5/5	α: 91 β: 2720 PID: 0.0	10-12 ft bgs RE49-10-9029	10-15' Tuff; SAA		Background: α: 111 dpm β: 2230 dpm
15 16 17 18 19	5/5	α: 78 β: 2390 PID: 0.0		15-20' Tuff; SAA with increased fracturing	Qbt4	
20 21 22 23 24	5/5	α: 78 β: 2490 PID: 0.0		20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 104 β: 2390 PID: 0.0		25-30' Qbt4, white (7.5YR8/1), non-weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610945	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/19	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 85 dpm	β BV: 2340 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 111 β: 2320 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 111 β: 2511 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 98 β: 2420 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 85 β: 2630 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 91 β: 2370 PID: 0.0		50-55' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610945	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/19	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 85 dpm	β BV: 2340 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
55 56 57 58 59	5/5	α: 78 β: 2680 PID: 0.0		55-60' Tuff; SAA	Qbt4	
60 61 62 63 64	5/5	α: 85 β: 2410 PID: 0.0		60-65' Tuff; SAA		
65 66 67 68 69	5/5	α: 72 β: 2350 PID: 0.0		65-70' Tuff; SAA		
70 71 72 73 74	5/5	α: 124 β: 2520 PID: 0.0		70-75' Tuff; SAA		
75 76 77 78 79	5/5	α: 98 β: 2350 PID: 0.0	78-80 ft bgs RE49-10-9030	75-79' Tuff; SAA 79-79.5' Surge Bed; 79.5-80' Qbt3		79.5-80 ft bgs Surge bed/Qbt3

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610945	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/19	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 85 dpm	β BV: 2340 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
80 81 82 83 84	5/5	α: 78 β: 2660 PID: 0.0		80-85' Qbt3, light gray (7.5YR7/1), non-weathered, non-welded, <5% pumices, 40-50% ashy matrix, 50-60% phenocrysts	Qbt3	
85 86 87 88 89	5/5	α: 85 β: 2490 PID: 0.0		85-90' Tuff; SAA		
90 91 92 93 94	5/5	α: 91 β: 2610 PID: 0.0		90-95' Tuff; SAA		
95 96 97 98 99	5/5	α: 91 β: 2600 PID: 0.0		95-100' Tuff; SAA		
100 101 102 103 104	3/5	α: 91 β: 2510 PID: 0.0		100-103: Tuff; SAA 103-105' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610945	TA: 49-001 (b)	Drill Depth: 0 to 130 ft bgs	Total Pages: 6
Driller: Matt Cain (WDC)	Start Date: 12/18/19	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 85 dpm	β BV: 2340 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: S. Maze/M. Jojola	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
105 106 107 108 109	2.5/5	α: 59 β: 2710 PID: 0.0		105-107.5' Tuff; SAA 107.5-110' No recovery		
110 111 112 113 114	3.8/5	α: 104 β: 2270 PID: 0.0		110-113.8' Tuff; SAA 113.8-115' No recovery		
115 116 117 118 119	3.2/5	α: 111 β: 2550 PID: 0.0		115-118.2' Tuff; SAA with decrease in welding 118.2-120' No recovery	Qbt3	
120 121 122 123 124	3.2/5	α: 91 β: 2570 PID: 0.0		120-123.2' Tuff; SAA 123.2-125' No recovery	NR	
125 126 127 128 129	5/5	α: 85 β: 2570 PID: 0.0	127-130 ft bgs RE49-10-9031	125-130' Tuff; SAA		
130						**TOTAL DEPTH: 130 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	4/5			0-1.2' CL with silt, dark brown (7.5YR6/3), medium loose, plastic, moist		
1		α: 59				
2		β: 1987		1.2-4' Qbt4 tuff, white (7.5YR8/1), non-weathered, moderately welded, fractured (with clay and silts), 60% ashy matrix, 10-15% phenocrysts, 5%		
3		PID: 0.0	1.2-3 ft bgs			
4			RE49-10-5367	4-5' No recovery		
5	5/5					
6		α: 59				
7		β: 2440		5-10' Tuff; SAA		
8		PID: 0.0				
9						
10	5/5					
11		α: 52				
12		β: 2580		10-15' Qbt4, pinkish gray (7.5YR8/2), non-weathered, lightly welded, 40-50% ashy matrix, 20-30% phenocrysts, 5% devitrified pumices		
13		PID: 0.0			Qbt4	
14						
15	5/5					
16		α: 59				Light rain and drizzle
17		β: 2440		15-20' Tuff; SAA with glassy pumices		
18		PID: 0.0				
19						
20	5/5					
21		α: 91				
22		β: 2430		20-25' Tuff; SAA		
23		PID: 0.0				
24						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
25 26 27 28 29	5/5	α: 72 β: 2520 PID: 0.0		25-30' Tuff; SAA with increased alterations and glassy pumices	Qbt4	
30 31 32 33 34	5/5	α: 72 β: 2600 PID: 0.0		30-35' Tuff; SAA		
35 36 37 38 39	5/5	α: 101 β: 2230		35-40' Tuff; SAA		Background: α: 118 dpm β: 2460 dpm
40 41 42 43 44	5/5	α: 65 β: 2430		40-45' Tuff; SAA with small fracture containing fat clays and silts		
45 46 47 48 49	5/5	α: 78 β: 2620		45-50' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
50 51 52 53 54	5/5	α: 72 β: 2210 PID: 0.3		50-55' Tuff; SAA	Qbt4	
55 56 57 58 59	5/5	α: 85 β: 2300 PID: 0.4		55-60' Tuff; SAA		
60 61 62 63 64	5/5	α: 78 β: 2290 PID: 0.3		60-65' Tuff; SAA		
65 66 67 68 69	5/5	α: 45 β: 2290 PID: 0.4		65-70' Tuff; SAA with increase in devitrified pumices		
70 71 72 73 74	5/5	α: 104 β: 2050 PID: 0.3		70-74' Qbt4, brown (7.5YR4/4), non-weathered, non-welded, 5% devitrified pumices, 40-50% ashy matrix, 20-30% phenocrysts 74-75' Surge bed		Begin surge bed

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
75	3.85/5			75-78.85' Qbt4 surge bed, gray (7.5YR6/1), non-weathered, non-welded, 40-50% ashy matrix, 40-50% phenocrysts		
76		α: 45				
77		β: 2510				
78		PID: 1.3	78-80 ft bgs	78.85-80' Qbt3, gray (7.5YR5/1), non-weathered, non-welded, 3-5% pumice relics, 40-50% ashy matrix, 40-50% phenocrysts		78 ft bgs Qbt3 boundary
79			RE49-10-5374			
80	4.5/5				Qbt3	
81		α: 78		80-84.5' Tuff; SAA		
82		β: 2470				
83		PID: 0.4				
84				84.5-85' No recovery		
85	4.2/5					
86		α: 65		85-89.2' Tuff; SAA		
87		β: 2300				
88		PID: 0.5				
89				89.2-90' No recovery	NR	
90	4.2/5					
91		α: 104		90-94.2' Qbt4, gray (7.5YR6/1), non-weathered, non-welded, 40-50% ashy matrix, 40-50% phenocrysts		
92		β: 2460				
93		PID: 0.5				
94				94.2-95' No recovery		
95	3/5				Qbt3	
96		α: 65		95-98' Tuff; SAA with increasing phenocryst conte		
97		β: 2510				
98		PID: 0.7		98-100' No recovery		
99						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
100 101 102 103 104	2.65/5	α: 111 β: 2480 PID: 0.3		100-102.65' Tuff; SAA 102.65-105' No recovery	NR	
105 106 107 108 109	2.85/5	α: 78 β: 2370 PID: 0.4		105-107.85' Tuff; SAA 107.85-110' No recovery		
110 111 112 113 114	0/5			110-115' No recovery		
115 116 117 118 119	0/5			115-120' No recovery		
120 121 122 123 124	4/5	α: 65 β: 2330 PID: 0.4		120-124' Tuff; SAA 124-125' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
125 126 127 128 129	5/5	α: 111 β: 2560 PID: 0.2		125-130' Tuff; SAA with increasing rock content, 5-15 mm in diameter		
130 131 132 133 134	0.95/5	α: 59 β: 2410 PID: 0.4		130-130.95' Tuff; SAA 130.95-135' No recovery	NR	
135 136 137 138 139	5/5	α: 41 β: 2530 PID: 0.2		135-140' Qbt3, light gray (7.5YR7/1), non-weathered, lightly welded, 40-50% ashy matrix, 50-60% phenocrysts	Qbt3	
140 141 142 143 144	5/5	α: 59 β: 2530 PID: 0.3	140-143 ft bgs RE49-10-5375 RE49-10-5384	140-145' Tuff; SAA		
145 146 147 148 149	5/5	α: 45 β: 2500 PID: 0.4		145-150' Tuff; SAA with minor amounts of small pumices		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150	3.8/5					
151		α: 91		150-153.8' Tuff; SAA	Qbt3	
152		β: 2580				
153		PID: 0.3		153.8-155' No recovery		
154						
155	3.6/5					
156		α: 72		155-158.6' Tuff; SAA		
157		β: 2480				
158		PID: 0.2		158.6-160' No recovery	NR	
159						
160	1.8/5			160-161.8' Tuff; SAA		
161		α: 91				
162		β: 2170		161.8-165' No recovery		
163		PID: 0.4				
164						
165	3.75/5					
166		α: 111		165-168.75' Tuff; SAA with increasing ash content	Qbt3	
167		β: 2460				
168		PID: 0.8		168.75-170' No recovery		
169						
170	3.7/5					
171		α: 65		170-173.7' Tuff; SAA		
172		β: 2340				
173		PID: 0.0		173.7-175' No recovery	NR	
174						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609981	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/17/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
175 176 177 178 179	3.9/5	α: 65 β: 2370 PID: 0.0		175-178' Tuff; SAA 178-180' No recovery	Qbt3	Background: α: 111 dpm β: 3100 dpm
180 181 182 183 184	3.5/5	α: 104 β: 2520 PID: 0.5		180-183.5' Tuff; SAA with increase in bomb size fragments 183.5-185' No recovery	NR	
185 186 187 188 189	3.8/5	α: 98 β: 2670 PID: 1.0		185-186.5' Tuff; SAA with color change 186.5-188.8' Tuff, reddish brown (2.5YR5/4), non-weathered, non-welded, crystal rich ash 188.8-190' No recovery		186.5 ft bgs Color change
190 191 192	2/2	α: 98 β: 2880 PID: 0.4	190-192 FT BG RE49-10-5376	190-192' Tuff; SAA with color change to gray (7.5YR7/1)		**TOTAL DEPTH: 192 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	5/5	α: 32 β: 2030 PID: 0.0	3.2-5 ft bgs RE49-10-5365	0-3.2' CL clayey silt, brown (7.5YR4/3), loose, non-plastic, dry, well sorted 3.2-5' Tuff, white (7.5YR8/1), non-weathered, welded, no fracturing, very stiff, 50% ashy matrix, 5% devitrified pumices, 15-20% lithics, 10-20% quartz	SOIL	3.2 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 85 β: 2120 PID: 0.0		5-10' Tuff; SAA		
10 11 12 13 14	5/5	α: 32 β: 2350 PID: 0.3		10-15' Tuff; SAA with fracture running length of core; fat clays and silt		Background: α: 45 dpm β: 2810 dpm
15 16 17 18 19	5/5	α: 85 β: 2360 PID: 0.0		15-20' Tuff; SAA with intermittent fracturing	Qbt4	
20 21 22 23 24	5/5	α: 39 β: 2320 PID: 0.2		20-25' Tuff; SAA		
25 26 27 28 29	4.7/5	α: 78 β: 2360 PID: 0.0		25-29.7' Tuff, pinkish white (7.5YR8/2), non-weathered, no fracturing, moderately welded, 40-50% ashy matrix, 5% devitrified pumice, 15-20% lithics, 15-20% quartz 29.7-30' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 78 β: 2350 PID: 0.0		30-35' Tuff; SAA with increasing lithics	Qbt4	
35 36 37 38 39	5/5	α: 88 β: 2270 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 45 β: 2480 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 91 β: 2510 PID: 0.3		45-50' Tuff; SAA		
50 51 52 53 54	4.5/5	α: 65 β: 2510 PID: 0.0		50-54.5' Tuff; SAA 54.5-55' No recovery		
55 56 57 58 59	5/5	α: 72 β: 2510 PID: 0.6		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 84 β: 2350 PID: 0.0		60-65' Tuff; SAA with increased welding and decrease in pumice	Qbt4	
65 66 67 68 69	5/5	α: 45 β: 2280 PID: 0.0		65-70' Tuff; SAA		
70 71 72 73 74	5/5	α: 85 β: 2550 PID: 0.0		70-75' Tuff; SAA		
75 76 77 78 79	5/5	α: 97 β: 2230 PID: 0.0		75-79.5' Tuff; SAA 79.5-80' Surge bed, gray (7.5YR6/1), sandy ash matrix, incompetant, sub-angular, poorly sorted		79.5 ft bgs Start of surge bed
80 81 82 83 84	4.2/5	α: 72 β: 2580 PID: 0.0	83-85 ft bgs RE49-10-5372	80-82' Tuff; SAA 82-84.2' Qbt3, light gray (7.5YR7/1), weathered, no fracture, moderately welded, 20-30% ashy matrix, 20% pumice (glassy), 40-50% phenocrysts 84.2-85' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
85 86 87 88 89	5/5	α: 65 β: 2710 PID: 0.0		85-90' Tuff; SAA	Qbt3	
90 91 92 93 94	5/5	α: 98 β: 2310 PID: 0.0		90-95' Tuff; SAA; increased welding with depth		
95 96 97 98 99	5/5	α: 85 β: 2440 PID: 0.0		95-100' Tuff; SAA		
100 101 102 103 104	5/5	α: 78 β: 2550 PID: 0.0		100-105' Tuff; SAA		
105 106 107 108 109	5/5	α: 52 β: 2380 PID: 0.0		105-110' Tuff; light gray (7.5YR7/1), non-weathered, no fractures, moderately welded, 30-50% ashy matrix, 20-5-% phenocrysts, little to no pumices		
110 111 112 113 114	5/5	α: 94 β: 2430 PID: 0.0		110-115' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
115 116 117 118 119	5/5	α: 65 β: 2580 PID: 0.0		115-120' Tuff; SAA	Qbt3	
120 121 122 123 124	5/5	α: 98 β: 2410 PID: 0.0		120-125' Tuff, light gray (7.5YR7/1), non-weathered, non-fractured, welded, 30-50% ashy matrix, 3-5% pumice, 15-20% phenocrysts		
125 126 127 128 129	5/5	α: 91 β: 2540 PID: 0.0		125-130' Tuff, light gray (7.5YR7/1), non-weathered, non-fractured, lightly welded, 30-50% ashy matrix, 30-40% phenocrysts, 10-15% pumices (glassy)		
130 131 132 133 134	5/5	α: 72 β: 2460		130-135' Tuff; SAA		
135 136 137 138 139	5/5	α: 91 β: 2580 PID: 0.0		135-140' Tuff; SAA		
140 141 142 143 144	5/5	α: 94 β: 2650 PID: 0.0		140-145' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
145 146 147 148 149	4.1/5	α: 91 β: 2590 PID: 0.3		145-149.1' Tuff; SAA with decreased welding 149.1-150' No recovery	Qbt3	Background: α: 52 dpm β: 2826 dpm
150 151 152 153 154	4.3/5	α: 85 β: 2460 PID: 0.1		150-154.3' Tuff, light gray (7.5YR7/1), non-weathered, non-welded, 30-50% ashy matrix, 30-40% phenocrysts, 5-10% glass pumices 154.3-155' No recovery	Qbt3	
155 156 157 158 159	3.65/5	α: 85 β: 2590 PID: 0.7		155-158.65' Tuff; SAA 158.65-160' No recovery	NR	
160 161 162 163 164	3.65/5	α: 52 β: 2460 PID: 0.0		160-163.65' Tuff; SAA 163.65-165' No recovery		
165 166 167 168 169	3.4/5	α: 98 β: 2540 PID: 1.1		165-168.4' Tuff; SAA 168.4-170' No recovery		
170 171 172 173 174	3.55/5	α: 72 β: 2660 PID: 0.0		170-173.55' Tuff; SAA 173.55-175' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609982	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/13/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2780 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
175	2.9/5					
176		α: 91		175-177.9' Tuff; SAA		
177		β: 2440				
178		PID: 0.0		177.9-180' No recovery	NR	
179						
180	5/5					
181		α: 65				
182		β: 2600		180-185' Tuff; SAA		
183		PID: 0.0				
184						
185	3.7/5					
186		α: 52		185-188.7' Tuff; SAA		
187		β: 2830				
188		PID: 0.0		188.7' Tuff, pinkish white (7.5YR8/2), non-weathered, non-welded, 80% ashy, 20% phenocrysts		188.7 FT BGS Color change
189				188.7-190' No recovery		189-190 ft bgs Color change to reddish
190	2/2	α: 78	190-192 FT BGS	190-192' Tuff; SAA	Qbt3	
191		β: 2330	RE49-10-5373			
192		PID: 0.0				**TOTAL DEPTH: 192 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	4.7/5	α: 39 β: 2410 PID: 0.0	0.5-3 ft bgs RE49-10-5364	0-0.5' CL, sandy clay, brown (7.5YR4/3), loose, moist, slightly plastic, 70% silt/sand, 30% clay, sub-rounded, poorly sorted 0.5-4.7' Qbt4 tuff, light gray (7.5YR7/1), non-weathered, moderately welded, no fractures, 60% ash matrix, 20% lithics, 10% quartz, 10% devitrified pumice fragments 4.7-5.0' No recovery		
5 6 7 8 9	5/5	α: 91 β: 2280 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	3.35/5	α: 91 β: 2320 PID: 0.9		10-13.35' Tuff; SAA 13.35-15' No recovery	NR	Background: α: 111 dpm β: 3100 dpm
15 16 17 18 19	1.2/5	α: 91 β: 2080 PID: 1.1		15-16.2' Tuff; SAA 16.2-20' No recovery		
20 21 22 23 24	5/5	α: 85 β: 2250 PID: 0.9		20-25' Qbt4, pinkish white (5YR8/2), non-weathered, non-welded, <5% pumices, lightly altered, devitrified, 60-70% ashy matrix, 15-20% phenocrysts	Qbt4	
25 26 27 28 29	5/5	α: 104 β: 2230 PID: 1.3		25-30' Qbt4, pinkish white (5YR7/2), non-weathered, moderately welded, <5% devitrified pumice, 15-20% phenocrysts in ashy matrix		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 59 β: 2460 PID: 0.9		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 72 β: 2440 PID: 0.7		35-40' Tuff; SAA; pumices increasing in size		
40 41 42 43 44	5/5	α: 78 β: 2430 PID: 0.1		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 98 β: 2490 PID: 0.4		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 98 β: 2490 PID: 0.7		50-55' Tuff; SAA with minor alterations		
55 56 57 58 59	5/5	α: 91 β: 2410 PID: 0.3		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 78 β: 2480 PID: 0.3		60-65' Tuff; SAA with increasing pumices		
65 66 67 68 69	5/5	α: 52 β: 2300 PID: 0.1		65-70' Tuff; SAA		
70 71 72 73 74	3.05/5	α: 107 β: 2620 PID: 0.2		70-73.05' White (5YR8/1), non-weathered, non-welded, crystal rich ash 73.05-75' No recovery	NR	Possible surge bed throughout interval
75 76 77 78 79	3.6/5	α: 78 β: 2450 PID: 0.3		75-78.6' Tuff; SAA 78.6-80' No recovery		
80 81 82 83 84	5/5	α: 78 β: 2980 PID: 0.5	80-82 ft bgs RE49-10-5377	80-85' Qbt3, light reddish brown (5YR6/4), non-weathered, non-welded, <5% pumices, 50-80% ash matrix, 30-40% phenocrysts	Qbt3	
85 86 87 88 89	5/5	α: 85 β: 2460 PID: 0.0		85-90' Tuff; SAA with increased to moderately welding		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	5/5	α: 91 β: 2550 PID: 0.0		90-95' Tuff; SAA	Qbt3	
95 96 97 98 99	5/5	α: 85 β: 2490 PID: 0.0		95-100' Tuff; SAA		
100 101 102 103 104	5/5	α: 98 β: 2580 PID: 0.5		100-105' Tuff; SAA		
105 106 107 108 109	5/5	α: 59 β: 2560 PID: 0.7		105-110' Tuff; SAA with increased welding	NR	
110 111 112 113 114	3.5/5	α: 78 β: 2710 PID: 0.9		110-112' Tuff; SAA with color change; reddish brown (5YR5/3), moderately welded 112-113.5' Tuff; SAA 113.5-115' No recovery		
115 116 117 118 119	5/5	α: 59 β: 2560 PID: 1.1		115-120' Tuff; SAA	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120 121 122 123 124	3.9/5	α: 98 β: 2750 PID: 0.7		120-123.9' Tuff; SAA 123.9-125' No recovery		
125 126 127 128 129	4.5/5	α: 72 β: 2430 PID: 1.0		125-129.5' Tuff; SAA 129.5-130' No recovery	Qbt3	
130 131 132 133 134	3.9/5	α: 111 β: 2630 PID: 0.8		130-133.9' Tuff; SAA 133.9-135' No recovery	NR	
135 136 137 138 139	3.65/	α: 111 β: 2400 PID: 2.3		135-138.65' Tuff; SAA 138.65-140' No recovery		
140 141 142 143 144	3.75/	α: 85 β: 2670 PID: 0.8	140-142 ft bgs RE49-10-5378	140-143.75' Tuff; SAA 143.75-145' No recovery	Qbt3	
145 146 147 148 149	3.3/5	α: 104 β: 2760 PID: 0.7		145-148.3' Tuff; SAA; non-welded 148.3-150' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150 151 152 153 154	3.1/5	α: 111 β: 2490 PID: 0.8		150-153.1' Qbt3, gray (5YR6/1), non-weathered, non-welded, 60-70% ash, 30-40% phenocrysts 153.1-155' No recovery		
155 156 157 158 159	3.15/5	α: 85 β: 2620 PID: 0.5		155-158.15' Tuff; SAA 158.15-160' No recovery	Qbt3	
160 161 162 163 164	3.2/5	α: 78 β: 2420 PID: 0.5		160-163.2' Tuff; SAA 163.2-165' No recovery	NR	
165 166 167 168 169	3.35/5	α: 72 β: 2660 PID: 0.1		165-168.35' Tuff; SAA with some alterations 168.35-170' No recovery		
170 171 172 173 174	3.35/5	α: 91 β: 2500 PID: 0.0		170-173.35' Tuff; SAA 173.35-175' No recovery	Qbt3	
175 176 177 178 179	3/5	α: 111 β: 2820 PID: 0.0		175-178' Tuff; SAA 178-180' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609983	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs	Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09		End Date: 11/18/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 59 dpm		β BV: 2780 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
180	3.5/5					
181		α: 111		180-183.5' Tuff; SAA		
182		β: 2200				
183		PID: 0.0		183.5-185' No recovery		
184						
185	3.8/5				Qbt3	
186		α: 104		185-188.8' Tuff; SAA with increase in sanadines		
187		β: 2450				
188		PID: 0.0		188.8-190' No recovery		
189						
190	2/2	α: 121	190-192 FT BG	190-192' Tuff; SAA		
191		β: 3090	RE49-10-5379			
192		PID: 0.0				**TOTAL DEPTH: 192 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	5/5	α: 111 β: 2340 PID: 1.7	3.25-5 ft bgs RE49-10-5366	0-3.25' Soil, ML with clay, brown (7.5YR), loose, plastic/moist, well sorted 3.25-5.0' Tuff, white (7.5YR8/1), weathered, welded, 60% ashy matrix, 20% lithics, <5% pumices (devitrified), 15% quartz with sanadine	SOIL Qbt4	3.2 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 78 β: 2150 PID: 1.9		5-8' Tuff; SAA 8-10' Tuff; SAA with color change to pink (7.5YR7/3), altered	Qbt4	
10 11 12 13 14	3.15/5	α: 45 β: 2170 PID: 0.9		10-13.15' Tuff; SAA 13.15-15' No recovery	Qbt4 NR	Background: α: 99 dpm β: 2750 dpm
15 16 17 18 19	5/5	α: 72 β: 2200 PID: 0.8		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	5/5	α: 59 β: 2220 PID: 0.8		20-25' Tuff; SAA	Qbt4	
25 26 27 28 29	5/5	α: 111 β: 2490 PID: 1.5		25-30' Qbt4, light brown (7.5YR6/3), non-weathered, altered, non-welded, 50-60% ashy matrix, 30-40% phenocrysts with <5% devitrified pumices	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 72 β: 2620 PID: 0.7		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 111 β: 2680 PID: 0.3		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 59 β: 2390 PID: 0.9		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 104 β: 2520 PID: 0.8		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 65 β: 2520 PID: 0.4		50-55' Tuff; SAA with minor alterations		
55 56 57 58 59	5/5	α: 91 β: 2590 PID: 1.0		55-60' Tuff; SAA with increased welding (moderately welded)		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 72 β: 2840 PID: 0.4		60-65' Tuff; SAA	Qbt4	
65 66 67 68 69	5/5	α: 72 β: 2290 PID: 0.4		65-70' Tuff; SAA		Background: α: 104 dpm β: 3280 dpm
70 71 72 73 74 75 76 77 78 79	5/5 4.2/5	α: 85 β: 2520 PID: 0.4 α: 78 β: 2680 PID: 0.4		70-75' Tuff; SAA 75-77.5' Tuff; SAA 77.5'-79.2' Surge bed 79-2-80' No recovery		77.5 ft bgs Start of surge bed
80 81 82 83 84	3.3/5	α: 93 β: 2340 PID: 0.2		80-83.3' Surge bed; SAA 83.3-85' No recovery	NR	
85 86 87 88 89	5/5	α: 52 β: 2250 PID: 0.5	85-87 ft bgs RE49-10-5380	85-90' Qbt3, gray (7.5YR6/1), non-weathered, non-welded, 50-60% ashy, 40-50% phenocrysts	Qbt3	85 ft bgs Qbt3

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	4.3/5	α: 104 β: 2520 PID: 0.1		90-94.3' Tuff; SAA 94.3-95' No recovery		
95 96 97 98 99	5/5	α: 98 β: 2440 PID: 0.3		95-100' Tuff; SAA	Qbt3	
100 101 102 103 104	5/5	α: 104 β: 2220 PID: 0.5		100-105' Tuff; SAA		
105 106 107 108 109	3.2/5	α: 72 β: 2670 PID: 0.5		105-108.2' Tuff; SAA 108.2-110' No recovery	NR	
110 111 112 113 114	5/5	α: 111 β: 2640 PID: 0.8		110-115' Tuff; SAA		
115 116 117 118 119	5/5	α: 124 β: 2620 PID: 0.5		115-120' Tuff; SAA with increasing pumices		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120 121 122 123 124	5/5	α: 131 β: 2390 PID: 0.3		120-125' Tuff; SAA	Qbt3	
125 126 127 128 129	4.25/5	α: 118 β: 2400 PID: 0.0		125-129.25' Qbt3, pinkish gray (7.5YR6/2), non-weathered, moderately welded, <5% devitrified pumices, 50-60% ashy matrix, 40-50% phenocrysts 129.25-130' No recovery		
130 131 132 133 134	3.6/5	α: 134 β: 2880 PID: 0.1		130-133.6' Tuff; SAA 133.6-135' No recovery	NR	
135 136 137 138 139	3.7/5	α: 111 β: 2320 PID: 0.0		135-138.7' Tuff; SAA 138.7-140' No recovery		
140 141 142 143 144	3.5/5	α: 78 β: 2370 PID: 0.1		140-143.5' Tuff; SAA 143.5-145' No recovery	Qbt3	
145 146 147 148 149	3.6/5	α: 85 β: 2630 PID: 0.0		145-148.6' Tuff; SAA 148.6-150' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150 151 152 153 154	3.35/5	α: 59 β: 2540 PID: 0.1	150-152 ft bgs RE49-10-5381	150-153.35' Qbt3, gray, (7.5YR6/1), non-weathered, non-welded, crystal rich ash 153.35-155' No recovery		
155 156 157 158 159	3.35/5	α: 72 β: 2640 PID: 0.2		155-158.35' Tuff; SAA 158.35-160' No recovery	Qbt3	
160 161 162 163 164	3.25/5	α: 65 β: 2390 PID: 0.0		160-163.25' Tuff; SAA 163.25-165' No recovery	NR	
165 166 167 168 169	3.25/5	α: 75 β: 2280 PID: 0.1		165-168.25' Tuff; SAA 168.25-170' No recovery		
170 171 172 173 174	3.6/5	α: 52 β: 2230 PID: 0.0		170-173.6' Tuff; SAA 173.6-175' No recovery	Qbt3	
175 176 177 178 179	3.3/5	α: 91 β: 2640 PID: 0.0		175-178.3' Tuff; SAA 178.3-180' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-609984	TA: 49-001 (e)	Drill Depth: 0 to 192 ft bgs		Total Pages: 8
Driller: Matt Cain (WDC)	Start Date: 11/11/09	End Date: 11/20/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 59 dpm	β BV: 2760 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
180 181 182 183 184	3.5/5	α: 111 β: 2410 PID: 0.0		180-183.5' Tuff; SAA with increase in bomb size lithics 183.5-185' No recovery		
185 186 187 188 189	3.3/5	α: 98 β: 2810 PID: 0.0		185-188.2' Tuff; SAA 188.3-190' No recovery		
190 191 192	2/2	α: 45 β: 2500 PID: 0.0	190-192 FT BG RE49-10-5382	190-192' Tuff; SAA with color change to pink (7.5YR7/3)	Qbt3	**TOTAL DEPTH: 192 FT BGS**

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	4.5/5	α: 18 β: 1833 PID: 0.0	0.7-2.7 ft bgs RE49-10-8964	0-0.7' ML with silt, brown (7.5YR4/4), loose, non-plastic, moist, well sorted 0.7-4.5' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumice, 40-50% ashy matrix, 30-40% phenocrysts 4.5-5' No recovery	Qbt4	0.7 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 37 β: 1623 PID: 0.0		5-10' Tuff; SAA with fractures		
10 11 12 13 14	2/5	α: 33 β: 1944 PID: 0.0		10-10.8' Fill/slough 10.8-12' Qbt4; SAA 12-15' No recovery	NR	
15 16 17 18 19	2/5	α: 33 β: 1815 PID: 0.0		15-17' Tuff; SAA 17-20' No recovery		
20 21 22 23 24	5/5	α: 14 β: 1821 PID: 0.0		20-25' Tuff; SAA		

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
25 26 27 28 29	5/5	α: 28 β: 1803 PID: 0.0		25-30' Tuff; SAA	Qbt4	
30 31 32 33 34	5/5	α: 4 β: 1739 PID: 0.0		30-35' Tuff; SAA		
35 36 37 38 39	5/5	α: 33 β: 2130 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 9 β: 2050 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 14 β: 1833 PID: 0.0		45-50' Tuff; SAA		

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
50 51 52 53 54	5/5	α: 23 β: 1862 PID: 0.0		50-55' Qbt4, pink (7.5YR7/3), non-weathered, non-welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
55 56 57 58 59	4/5	α: 37 β: 2010 PID: 0.0		55-59' Tuff; SAA 59-60' No recovery	Qbt4	
60 61 62 63 64	3.5/5	α: 14 β: 1891 PID: 0.0	61.2-63.5 ft bgs RE49-10-8965	60-61.2' Tuff; SAA 61.2-62' Surge bed 62-63.5' Qbt3, white (7.5YR8/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 63.5-65' No recovery	Qbt4 Qbt3	61.2-62 ft bgs Surge bed
65 66 67 68 69	3/5	α: 23 β: 1961 PID: 0.0		65-68' Tuff; SAA 68-70' No recovery	Qbt3 NR	
70 71 72 73 74	5/5	α: 33 β: 1990 PID: 0.0		70-75' Tuff; SAA	Qbt3	

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
75 76 77 78 79	5/5	α: 14 β: 2010 PID: 0.0		75-80' Tuff; SAA	Qbt3	
80 81 82 83 84	5/5	α: 37 β: 1716 PID: 0.0		80-85' Tuff; SAA		
85 86 87 88 89	5/5	α: 23 β: 2703 PID: 0.0		85-90' Tuff; SAA		
90 91 92 93 94	5/5	α: 23 β: 1914 PID: 0.0		90-95' Tuff; SAA		
95 96 97 98 99	5/5	α: 19 β: 2100 PID: 0.0		95-100' Tuff; SAA		

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
100 101 102 103 104	3/5	α: 47 β: 1891 PID: 0.0		100-103' Tuff; SAA 103-105' No recovery	NR	
105 106 107 108 109	2/5	α: 18 β: 2100 PID: 0.0		105-107' Tuff; SAA 107-110' No recovery		
110 111 112 113 114	3/5	α: 42 β: 1564 PID: 0.0	110-112 ft bgs RE49-10-8966	110-113' Tuff; SAA 113-115' No recovery		
115 116 117 118 119	4.2/5	α: 33 β: 2030 PID: 0.0		115-119.2' Tuff; SAA 119.2-120' No recovery	Qbt3	
120 121 122 123 124	4.5/5	α: 28 β: 1804 PID: 0.0		120-124.5' Tuff; SAA 124.5-125' No recovery		

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
125	3/5					
126		α: 19		125-128' Tuff; SAA		
127		β: 2100				
128		PID: 0.0		128-130' No recovery	NR	
129						
130	3.5/5					
131		α: 19		130-133.5' Tuff; SAA		
132		β: 2106				
133		PID: 0.0		133.5-135' No recovery		
134						
135	3.7/5					Background:
136		α: 33		135-138.7' Tuff; SAA		α: 28 dpm
137		β: 2160				β: 2190 dpm
138		PID: 0.0		138.7-140' No recovery	NR	1/15/2010
139						
140	5/5				Qbt3	
141		α: 14				
142		β: 2280		140-145' Tuff; SAA		
143		PID: 0.0				
144						
145	5/5					
146		α: 18				
147		β: 1961		145-150' Tuff; SAA		
148		PID: 0.0				
149						

BOREHOLE LOG

(SWMU 49-001 (f))

Borehole ID: 49-610938	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date; 12/15/09		End Date: 01/15/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150	4/5				Qbt3	
151		α: 9		150-154' Tuff; SAA		
152		β: 2080				
153		PID: 0.0				
154				154-155' No recovery		
155	3/3	α: 37				
156		β: 1909		155-158' Tuff; SAA		
157		PID: 0.0				
158						**TOTAL DEPTH: 158 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.5/5 NR	α: 18 β: 1768 PID: 0.0	2-3.5 ft bgs RE49-10-8965	0-2' CL with silts, brown (7.5YR5/4), loose, dry, well sorted 2-3.5' Qbt4, white (7.5YR8/1), very weathered, 5% pumices, 40-50% ashy matrix, 30-40% phenocrysts 3.5-5.0' No recovery	SOIL NR	2 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 28 β: 1815 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	5/5	α: 70 β: 2190 PID: 0.0		10-15' Tuff; SAA		Background: α: 43 dpm β: 1621 dpm
15 16 17 18 19	5/5	α: 18 β: 2230 PID: 0.0		15-20' Tuff; SAA		
20 21 22 23 24	5/5	α: 33 β: 2310 PID: 0.0		20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 21 β: 2300 PID: 0.0		25-30' Qbt4, pinkish white (7.5YR8/2), non-weathered, non-welded, 5% devitrified pumice, 40-50% ashy matrix, 30-40% phenocrysts		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 37 β: 2230 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	4.3/5	α: 37 β: 2130 PID: 0.0		35-39.3' Tuff; SAA 39.3-40' No recovery	Qbt4	
40 41 42 43 44	5/5	α: 32 β: 2260 PID: 0.0		40-45' Tuff; SAA	Qbt4	
45 46 47 48 49	5/5	α: 59 β: 2330 PID: 0.0		45-50' Tuff; SAA	Qbt4	
50 51 52 53 54	5/5	α: 48 β: 2270 PID: 0.0		50-55' Tuff; SAA	Qbt4	
55 56 57 58 59	5/5	α: 43 β: 2440 PID: 0.0		55-60' Tuff; SAA	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	4.2/5	α: 14 β: 1891 PID: 0.0		60-63.2' Tuff; SAA 63.2-64.2' Surge bed 64.2-65' No recovery	Qbt4 NR	63.2 ft bgs Surge bed
65 66 67 68 69	3.6/5	α: 28 β: 1839 PID: 0.0	66.6-68.6 ft bgs RE49-10-8975 RE49-10-8992	65-68.6' Qbt3, light gray (7.5YR7/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 68.6-70' No recovery		65 ft bgs Qbt3
70 71 72 73 74	4/5	α: 23 β: 2030 PID: 0.0		70-74' Tuff; SAA 74-75' No recovery	Qbt3	
75 76 77 78 79	4/5	α: 18 β: 2080 PID: 0.0		75-79' Tuff; SAA 79-80' No recovery	NR	
80 81 82 83 84	5/5	α: 18 β: 1990 PID: 0.0		80-85' Tuff; SAA with increased welding		
85 86 87 88 89	4.5/5	α: 33 β: 1984 PID: 0.0		85-89.5' Tuff; SAA 89.5-90' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	5/5	α: 23 β: 2220 PID: 0.0		90-95' Tuff; SAA	Qbt3	
95 96 97 98 99	5/5	α: 33 β: 2150 PID: 0.0		95-100' Tuff; SAA		
100 101 102 103 104	3.2/5	α: 18 β: 1809 PID: 0.0		100-103.2' Tuff; SAA 103.2-105' No recovery		
105 106 107 108 109	3.3/5	α: 28 β: 2270 PID: 0.0	106-108 ft bgs RE49-10-8976	105-108.3' Tuff; SAA 108.3-110' No recovery		
110 111 112 113 114	3.2/5	α: 32 β: 2180 PID: 0.0		110-113.2' Tuff; SAA 113.2-115' No recovery	NR	
115 116 117 118 119	5/5	α: 28 β: 2040 PID: 0.0		115-120' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120 121 122 123 124	4.3/5	α: 28 β: 2040 PID: 0.0		120-124.3' Tuff; SAA 124.3-125' No recovery		
125 126 127 128 129	5/5	α: 33 β: 2100 PID: 0.0		125-130' Tuff; SAA	Qbt3	
130 131 132 133 134	5/5	α: 23 β: 2110 PID: 0.0		130-135' Tuff; SAA		
135 136 137 138 139	5/5	α: 42 β: 2320 PID: 0.0		135-140' Tuff; SAA		
140 141 142 143 144	5/5	α: 23 β: 2160 PID: 0.0		140-145' Tuff; SAA		
145 146 147 148 149	5/5	α: 28 β: 1990 PID: 0.0		145-150' Tuff; SAA		Background: a: 27 dpm b: 2450 dpm 1/14/2010

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610939	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/14/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150	5/5				Qbt3	
151		α: 33				
152		β: 2030		150-155' Tuff; SAA		
153		PID: 0.0				
154						
155	3.6/5	α: 27				
156		β: 1991	156-158 ft bgs	155-158.6' Tuff; SAA		
157		PID: 0.0	RE49-10-8977			
158						**TOTAL DEPTH: 158 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.5/5	α: 23 β: 1698 PID: 0.0	0.7-2.7 ft bgs RE49-10-8980	0-0.7' CL with silt and tuff, dark brown (7.5YR3/3), medium dense, slightly plastic, moist, poorly sorted 0.7-3.5' Qbt4, white (7.5YR8/1), hihgly weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 3.5-5' No recovery	NR	0.7 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 23 β: 1973 PID: 0.0		5-10' Tuff; SAA		
10 11 12 13 14	4.5/5	α: 14 β: 2140 PID: 0.0		10-10.5' Fill 10.5-14.5' Tuff; SAA 14.5-15' No recovery		Background: α: 10 dpm β: 1379 dpm 1/12/2010
15 16 17 18 19	5/5	α: 33 β: 1930 PID: 0.0		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	4.6/5	α: 42 β: 1920 PID: 0.0		20-24.6' Tuff; SAA 24.6-25' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
25 26 27 28 29	5/5	α: 18 β: 1990 PID: 0.0		25-30' Qbt4, white (7.5YR8/1), non-weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
30 31 32 33 34	5/5	α: 37 β: NA PID: 0.0		30-35' Tuff; SAA		
35 36 37 38 39	5/5	α: 23 β: 1980 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 33 β: 1926 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 33 β: 1987 PID: 0.0		45-50' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
50 51 52 53 54	5/5	α: 18 β: 1949 PID: 0.0		50-55' Tuff; SAA with increased welding	Qbt4	
55 56 57 58 59	5/5	α: 23 β: 1987 PID: 0.0		55-60' Tuff; SAA		
60 61 62 63 64	5/5	α: 18 β: 2080 PID: 0.0		60-65' Tuff; SAA with increasing ashy content		
65 66 67 68 69	3.7/5	α: 37 β: 1996 PID: 0.0		65-66' Tuff; SAA 66-68.7' Surge bed 68.7-70' No recovery		66 ft bgs Start of surge bed
70 71 72 73 74	4.7/5	α: 37 β: 2160 PID: 0.0	72.7-74.7 ft bgs RE49-10-8981	70-74.7' Qbt3, light gray (7.5YR7/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 74.7-75' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
75	5/5				Qbt3	
76		α: 71				
77		β: 2370		75-80' Tuff; SAA		
78		PID: 0.0				
79						
80	5/5					
81		α: 33				
82		β: 2210		80-85' Tuff; SAA		
83		PID: 0.0				
84						
85	5/5					
86		α: 28				
87		β: 2090		85-90' Tuff; SAA		
88		PID: 0.0				
89						
90	5/5					
91		α: 33				
92		β: 2100		90-95' Tuff; SAA		
93		PID: 0.0				
94						
95	5/5					
96		α: 32				
97		β: 2030		95-100' Tuff; SAA		
98		PID: 0.0				
99						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
100	5/5					
101		α: 28				
102		β: 2210		100-105' Tuff; SAA		
103		PID: 0.0				
104						
105	0/5				NR	
106						
107				105-110' No recovery		
108						
109						
110	3.5/5		110-113 ft bgs			
111		α: 19	RE49-10-8982	110-113.5' Tuff; SAA		
112		β: 2220				
113		PID: 0.0		113.5-115' No recovery	NR	
114						
115	2.6/5			115-117.6' Tuff; SAA	Qbt3	
116		α: 14				
117		β: 2100				
118		PID: 0.0		117.6-120' No recovery		
119						
120	3.7/5					
121		α: 20		120-123.7' Tuff; SAA		
122		β: 2140				
123		PID: 0.0				
124				123.7-125' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
125	3/5					
126		α: 14		125-128' Tuff; SAA		
127		β: 2090				
128		PID: 0.0		128-130' No recovery		
129						
130	3.4/5					
131		α: 14		130-133.4' Tuff; SAA	Qbt3	
132		β: 2130				
133		PID: 0.0		133.4-135' No recovery		
134						
135	5/5					
136		α: 9				
137		β: 2040		135-140' Tuff; SAA		
138		PID: 0.0				
139						
140	5/5					
141		α: 18				
142		β: 1955		140-145' Tuff; SAA		
143		PID: 0.0				
144						
145	3.5/5					
146		α: 9		145-148.5' Tuff; SAA		
147		β: 2080				
148		PID: 0.0		148.5-150' No recovery	NR	
149						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610940	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 01/12/10	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150	5/5				Qbt3	
151		α: 18				
152		β: 1914		150-155' Tuff; SAA		
153		PID: 0.0				
154						
155	3.5/5	α: 14				
156		β: 2000	156-158 ft bgs	155-158.5' Tuff; SAA		
157		PID: 0.0	RE49-10-8983			
158						**TOTAL DEPTH: 158 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs		Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09		End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm		β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.4/5	α: 18 β: 1855 PID: 0.0	1.3-3.4 ft bgs RE49-10-8986	0-1.3' ML with silt, light brown (7.5YR6/4), loose, dry, well sorted 1.3-3.4' Qbt4, white (7.5YR8/1), moderately welded, fractured with fat clays, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts, etc. minor alterations 3.4-5.0' No recovery	SOI NR	1.35 ft bgs Soil/tuff interface
5 6 7 8 9	5/5	α: 9 β: 1973 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	5/5	α: 91 β: 2450 PID: 0.0		10-15' Tuff; SAA		Background: α: 59 dpm β: 2530 dpm 12/17/2009
15 16 17 18 19	5/5	α: 85 β: 2610 PID: 0.0		15-20' Tuff; SAA		
20 21 22 23 24	5/5			20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 85 β: 2410 PID: 0.0		25-30' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 52 β: 2650 PID: 0.0		30-35' Tuff; SAA	Qbt4	
35 36 37 38 39	5/5	α: 85 β: 2430 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 78 β: 2510 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 78 β: 2510		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 85 β: 2460 PID: 0.0		50-55' Qbt4, white (7.5YR8/1), non-weathered, moderately welded, minor fracturing, <5% pumices, 40-50% ashy matrix, 45-50% phenocrysts		
55 56 57 58 59	4.5/5	α: 118 β: 2310 PID: 0.0		55-59.5' Tuff; SAA 59.5-60' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 59 β: 2420 PID: 0.0		60-65' Tuff; SAA with decreasing pumices; increasing phenocrysts	Qbt4	
65 66 67 68 69	3.3/5	α: 104 β: 2510 PID: 0.0		65-65.3' Tuff; SAA 65.3-68.3' Surge bed 68.3-70' No recovery		65.3 ft bgs Surge bed
70 71 72 73 74	3.9/5	α: 85 β: 2640 PID: 0.0	70-72 ft bgs RE49-10-8987	70-73.9' Qbt3, white (7.5YR8/1), non-weathered, non-welded, <5% pumices, 50-60% ashy matrix, 40-50% phenocrysts 73.9-75' No recovery	Qbt3	70 ft bgs Qbt3
75 76 77 78 79	0/5			75-80' No recovery		
80 81 82 83 84	1.3/5	α: 104 β: 2540		80-81.3' Tuff; SAA with increased ash cement 81.3-85' No recovery	NR	
85 86 87 88 89	4.7/5	α: 72 β: 2570 PID: 0.0		85-89.7' 89.7-90' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	5/5	α: 78 β: 2770 PID: 0.0		90-95' Tuff; SAA with increased welding	Qbt3	
95 96 97 98 99	5/5	α: 65 β: 2260 PID: 0.0		95-100' Tuff; SAA		
100 101 102 103 104	5/5	α: 78 β: 2710 PID: 0.0		100-105' Tuff; SAA		
105 106 107 108 109	2/5	α: 65 β: 2670 PID: 0.0	105-107 ft bgs RE49-10-8988	105-107' Tuff; SAA 107-110' No recovery	NR	
110 111 112 113 114	3/5	α: 98 β: 2840 PID: 0.0		110-113' Tuff; SAA 113-115' No recovery		
115 116 117 118 119	3.3/5	α: 98 β: 2560		115-118.3' Tuff; SAA 118.3-120' No recovery	Qbt3	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
120 121 122 123 124	3.5/5	α: 98 β: 2680 PID: 0.0		120-123.5' Tuff; SAA 123.5-125' No recovery	NR	
125 126 127 128 129	3.2/5	α: 39 β: 2840 PID: 0.0		125-128.2' Qbt3, white (7.5YR8/1), non-weathered, non-welded, crystal rich ash 128.2-130' No recovery		
130 131 132 133 134	3.3/5	α: 91 β: 2820 PID: 0.0		130-133.3' Tuff; SAA 133.3-135' No recovery	Qbt3	
135 136 137 138 139	3.5/5	α: 65 β: 2580		135-138.5' Tuff; SAA 138.5-140' No recovery	NR	
140 141 142 143 144	3/5	α: 98 β: 2710		140-143' Tuff; SAA 143-145' No recovery		
145 146 147 148 149	2.2/5	α: 85 β: 2880		145-147.2' Tuff; SAA 147.2-150' No recovery	NR	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610941	TA: 49-001 (f)	Drill Depth: 0 to 158 ft bgs	Total Pages: 7
Driller: Matt Cain (WDC)	Start Date: 12/15/09	End Date: 12/17/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 9 dpm	β BV: 1183 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
150 151 152 153 154	3.1/5	α: 45 β: 2890 PID: 0.0		150-153.1' Tuff; SAA 153.1-155' No recovery		
155 156 157	3.2/5	α: 78 β: 2650	156-158 ft bgs RE49-10-8989	155-158.2' Tuff; SAA	Qbt3	
158						**TOTAL DEPTH: 158 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610489	TA: 49-008 (c)	Drill Depth: 0 to 80 ft bgs		Total Pages: 4
Driller: Matt Cain (WDC)	Start Date: 12/01/09		End Date: 12/02/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 131 dpm	β BV: 2720 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.9/5	α: 111 β: 2380 PID: 0.0	0-2 ft bgs RE49-10-7087	0-2' CL with silt, dark brown (7.5YR3/4), medium dense, plastic, moist, well sorted 2-3.9' Qbt4, white (7.5YR8/1), weathered, moderately welded, <5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts 3.9-5' No recovery	SOIL NR	
5 6 7 8 9	5/5	α: 37 β: 1733 PID: 0.0		5-10' Tuff; SAA	Qbt4	
10 11 12 13 14	5/5	α: 98 β: 2380 PID: 0.2		10-15' Tuff; SAA with lense of clay		
15 16 17 18 19	5/5	α: 72 β: 2400 PID: 0.0		15-20' Tuff; SAA with minor fracturing		
20 21 22 23 24	5/5	α: 91 β: 2490 PID: 0.3		20-25' Tuff; SAA		
25 26 27 28 29	4.15/5	α: 85 β: 2810 PID: 0.1		25-29.15' Qbt4, white (7.5YR8/1), non-weathered, lightly welded, moderately fractured, 5-8% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts, cracks filled with fat clays 29.15-30' No recovery		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610489	TA: 49-008 (c)	Drill Depth: 0 to 80 ft bgs		Total Pages: 4
Driller: Matt Cain (WDC)	Start Date: 12/01/09		End Date: 12/02/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 131 dpm	β BV: 2720 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 32 β: 2550 PID: 0.0		30-35' Tuff; SAA with alterations	Qbt4	Background: α: 98 dpm β: 3150 dpm
35 36 37 38 39	5/5	α: 91 β: 2560 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 98 β: 2770 PID: 0.0		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 157 β: 2990 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 131 β: 3030 PID: 0.0		50-55' Tuff; SAA		
55 56 57 58 59	5/5	α: 124 β: 2780 PID: 0.0		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610489	TA: 49-008 (c)	Drill Depth: 0 to 80 ft bgs	Total Pages: 4
Driller: Matt Cain (WDC)	Start Date: 12/01/09	End Date: 12/02/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 131 dpm	β BV: 2720 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60	5/5				Qbt4	
61		α: 157				
62		β: 3040		60-65' Tuff; SAA		
63		PID: 0.0	63-65 ft bgs			
64			RE49-10-7088			
65	2.3/5			65-67.3' Tuff; SAA with increasing phenocrysts		
66		α: 78				
67		β: 2810			NR	
68		PID: 0.0		67.3-80' No recovery		
69						
70	2.3/5			70-72.3' Tuff; SAA		
71		α: 131				
72		β: 2890				
73		PID: 0.0		72.3-75' No recovery		
74						
75	5/5				Qbt4	
76		α: 111		75-77.8' Tuff; SAA		
77		β: 2800	77-79 ft bgs			77.8 ft bgs Surge bed
78		PID: 0.0	RE49-10-7089			
79				77.8-80' Surge bed		
80						**TOTAL DEPTH: 80 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610490	TA: 49-008 (c)	Drill Depth: 0 to 35 ft bgs	Total Pages: 2
Driller: Matt Cain (WDC)	Start Date: 12/04/09		End Date: 12/04/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2530 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	4.2/5	α: 131 β: 2250 PID: 0.4	0-2 ft bgs RE49-10-7090	0-4.2' Cl with silt and fine sand, brown (7.5YR4/4), moderately loose, slightly plastic, moist, well sorted 4.2-5' No recovery	SOIL	
5 6 7 8 9	5/5	α: 98 β: 2350 PID: 0.4		5-10' Qbt4, white (7.5YR8/1), weathered, fractured, moderately welded, fractures contain fat clays, <5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		
10 11 12 13 14	5/5	α: 65 β: 2490 PID: 0.5		10-15' Tuff; SAA; no fracturing		
15 16 17 18 19	5/5	α: 55 β: 2650 PID: 0.6	18-20 ft bgs RE49-10-7091	15-20' Tuff; SAA		
20 21 22 23 24	5/5	PID: 0.3		20-25' Tuff; SAA with increased pumice size	Qbt4	
25 26 27 28 29	5/5	α: 91 β: 2530 PID: 0.3		25-30' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610490	TA: 49-008 (c)	Drill Depth: 0 to 35 ft bgs	Total Pages: 2
Driller: Matt Cain (WDC)	Start Date: 12/04/09		End Date: 12/04/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2530 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30	5/5					
31		α: 85				
32		β: 2740		30-35' Tuff; SAA with alterations		
33		PID: 1.1	33-35 ft bgs			
34			RE49-10-7092			
35						TOTAL DEPTH: 35 FT BGS

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610491	TA: 49-008 (c)	Drill Depth: 0 to 10 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/04/09		End Date: 12/04/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3/5		0-2 ft bgs	0-2' ML with silt, dark brown (7.5YR3/4), loose, non-plastic, well sorted, moist	SOIL	
1		α: 111	RE49-10-7093	2-3' ML with sand, brown (7.5YR5/4), dense, dry, poorly sorted		
2		β: 2170				
3		PID: 0.6		3-5' No recovery	NR	
4						
5	5/5			5-10' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
6		α: 98				
7		β: 2340				
8		PID: 0.6	8-10 ft bgs			
9			RE49-10-7094			
10						**TOTAL DEPTH: 10 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610492	TA: 49-008 (c)	Drill Depth: 0 to 10 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/04/09		End Date: 12/04/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.2/5		0-2 ft bgs	0-1.5' Fill, dark brown (7.5YR3/2), loose, non-plastic, poorly sorted with cobbles	FILL	
1		α: 52	RE49-10-7095	1.5-3.2' ML with fine sand, brown (7.5YR4/3), loose, non-plastic, poorly sorted	SOIL	
2		β: 2210				
3		PID: 0.3		3.2-5' No recovery	NR	
4						
5	5/5			5-10' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
6		α: 98				
7		β: 2500				
8		PID: 0.2	8-10 ft bgs			
9			RE49-10-7096			
10						**TOTAL DEPTH: 10 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610493	TA: 49-008 (c)	Drill Depth: 0 to 10 ft bgs	Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/07/09	End Date: 12/07/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	2.5/5		0-2.5 ft bgs	0-1' Fill, dark brown (7.5YR3/3), loose, non-plastic, moist, sandy gravel	FILL	
1		α: 98	RE49-10-7097	1-2.5' ML with silt, brown (7.5YR5/4), dense, non-plastic, moist, well sorted	SOIL	
2		β: 2260	RE49-10-7122			
3		PID: 1.0		2.5-5' No recovery	NR	
4						
5	5/5				Qbt4	
6		α: 78		5-10' Qbt4, white (7.5YR8/1), weathered, moderately welded, fractured with fat clays, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts		
7		β: 2560				
8		PID: 0.0	8-10 ft bgs			
9			RE49-10-7098			
10						**TOTAL DEPTH: 10 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610494	TA: 49-008 (c)	Drill Depth: 0 to 10 ft bgs	Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/07/09		End Date: 12/07/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2270 dpm
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3/5		0-2 ft bgs	0-2' Fill, brown (7.5YR4/3), loose, moist, gravely cobbles with sand	FILL	
1		α: 65	RE49-10-7099	2-3' CL, strong brown (7.5YR7/6), dense, non-plastic, moist, well sorted	SOIL	
2		β: 2360				
3		PID: 0.5		3-5' No recovery		
4						
5	5/5			5-10' Qbt4, white (7.5YR8/1), weathered, non-welded, moderate fracturing with fat clays, 5% devitrified pumices, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
6		α: 72				
7		β: 2410				
8		PID: 0.3	8-10 ft bgs			
9			RE49-10-7100			
10						TOTAL DEPTH: 10 FT BGS

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610495	TA: 49-008 (c)	Drill Depth: 0 to 10 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/07/09		End Date: 12/07/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	4/5		0-2 ft bgs	0-1' Fill, brown (7.5YR4/3), loose, gravely with sand, moist, poorly sorted	FILL	
1		α: 98	RE49-10-7101		SOIL	
2		β: 2170		1-4' Ml with sand, brown (7.5YR5/4), loose, dry, well sor		
3		PID: 0.4				
4				4-5' No recovery		
5	5/5			5-6' Soil; SAA		
6		α: 85			Qbt4	6 ft bgs Soil/tuff interface
7		β: 2115		6-10' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5-8% pumices (devitrified), 40-50% ashy matrix, 30-40% phenocrysts		
8		PID: 0.1	8-10 ft bgs			
9			RE49-10-7102			
10						**TOTAL DEPTH: 10 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610496	TA: 49-003	Drill Depth: 0 to 10 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/07/09		End Date: 12/07/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.5/5		0-2 ft bgs	0-0.5' Fill, brown (7.5YR4/4), loose, non-plastic, moist, poorly sorted		
1		α: 78	RE49-10-7122	0.5-2.5' ML with silt, brown (7.5YR5/4), dense, dry, non-plas	SOIL	
2		β: 2260		2.5-3.5' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% pumice, 40-50% ashy matrix, 30-40% phenocrysts		2.5 ft bgs Soil/tuff interface
3		PID: 0.3				
4				3.5-5' No recovery	NR	
5	5/5					
6		α: 59				
7		β: 2470		5-10' Tuff; SAA	Qbt4	
8		PID: 0.0	7.5-10 ft bgs			
9			RE49-10-7123			
10						TOTAL DEPTH: 10 FT BGS

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610497	TA: 49-003	Drill Depth: 0 to 20 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/10/09		End Date: 12/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	4.4/5	α: 91 β: 2050 PID: 0.0	0-2 ft bgs RE49-10-7109	0-2.2' Cl with silt, brown (7.5YR4/4), moderately dense, non-plastic, moist, well sorted	SOIL	
1						
2				2.2-4.4' Qbt4, white (7.5YR8/1), non-weathered, non-welded, 5% devitrified pumice, 40-50% ashy matrix, 30-40% phenocrysts		2.2 ft bgs Soil/tuff interface
3						
4				4.4-5' No recovery		
5	5/5	α: 96 β: 2460 PID: 0.0		5-10' Tuff; SAA with moderate fracturing containing fat clays	Qbt4	
6						
7						
8						
9						
10	5/5	α: 85 β: 2430 PID: 0.0	13-15 ft bgs RE49-10-7110 RE49-10-7107	10-15' Tuff; SAA		
11						
12						
13						
14						
15	5/5	α: 104 β: 2320 PID: 0.0	18-20 ft bgs RE49-10-7111	15-20' Tuff; SAA		
16						
17						
18						
19						
20						**TOTAL DEPTH: 20 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610498	TA: 49-003	Drill Depth: 0 to 20 ft bgs	Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/10/09	End Date: 12/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.8/5		0-2 ft bgs	0-2' Cl with silt, brown (7.5YR4/4), loose, non-plastic, moist, well graded	SOIL	
1		α: 65	RE49-10-7112			
2		β: 2390		2-3.8' Qbt4, white (7.5YR8/1), weathered, non-welded, 5% devitrified pumice, 40-50% ashy matrix, 30-40% phenocrysts		2 ft bgs Soil/tuff interface
3		PID: 0.0			NR	
4				3.8-5' No recovery		
5	5/5				Qbt4	
6		α: 85				
7		β: 2640		5-10' Tuff; SAA		
8		PID: 0.1	8-10 ft bgs			
9			RE49-10-7113			
10	5/5					
11		α: 65				
12		β: 2550		10-15' Tuff; SAA		
13		PID: 0.0				
14						
15	5/5					
16		α: 39				
17		β: 2310		15-20' Tuff; SAA		
18		PID: 0.1	18-20 ft bgs			
19			RE49-10-7114			
20						**TOTAL DEPTH: 20 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610499	TA: 49-003	Drill Depth: 0 to 20 ft bgs		Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/10/09		End Date: 12/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.8/5		0-2 ft bgs	0-2.9' Cl with silt, brown (7.5YR4/4), loose, non-plastic, dry, well sorted	SOIL	
1		α: 59	RE49-10-7115			
2		β: 2220		2.9-3.8' Qbt4, white (7.5YR8/1), weathered, non-welded, 5% pumice, 30-40% phenocrysts, 40-50% ashy matrix		2.9 ft bgs Soil/ tuff interface
3		PID: 0.0			NR	
4				3.8-5' No recovery		
5	5/5			5-10' Qbt4, white (7.5YR8/1), moderately welded, weathered, 5% pumice, 40-50% ashy matrix, 30-40% phenocrysts	Qbt4	
6		α: 111				
7		β: 2390				
8		PID: 0.0				
9						
10	5/5			10-15' Tuff; SAA		
11		α: 98				
12		β: 2370				
13		PID: 0.0	13-15 ft bgs			
14			RE49-10-7116			
15	5/5			15-20' Tuff; SAA		
16		α: 137				
17		β: 2560				
18		PID: 0.0	18-20 ft bgs			
19			RE49-10-7117			
20						**TOTAL DEPTH: 20 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610500	TA: 49-003	Drill Depth: 0 to 20 ft bgs	Total Pages: 1
Driller: Matt Cain (WDC)	Start Date: 12/10/09	End Date: 12/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger	α BV: 104 dpm	β BV: 2530 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler		Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.8/5		0-2 ft bgs	0-2.2' CL with silt, brown (7.5YR4/4), moderately dense, non-plastic, moist, well sorted	SOIL	
1		α: 78	RE49-10-7118			
2		β: 2100		2.2-3.8' Qbt4, white (7.5YR8/1), weathered, moderately welded, 5% pumices, 40-50% ashy matrix, 30-40% phenocrysts		2.2 ft bgs Soil/tuff interface
3		PID: 0.0			NR	
4				3.8-5' No recovery		
5	5/5				Qbt4	
6		α: 78				
7		β: 2520		5-10' Tuff; SAA		
8		PID: 0.1	8-10 ft bgs			
9			RE49-10-7119			
10	5/5					
11		α: 98				
12		β: 2530		10-15' Tuff; SAA		
13		PID: 0.3				
14						
15	5/5					
16		α: 59				
17		β: 2350		15-20' Tuff; SAA		
18		PID: 0.0	18-20 ft bgs			
19			RE49-10-7120			
20						**TOTAL DEPTH: 20 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610481	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/24/09		End Date: 11/30/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2300 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	2.65/5	α: 52 β: 2250 PID: 0.0	3-5 ft bgs RE49-10-7045	0-2.65' Gravel fill, CL with silt, dark brown (7.5YR3/3), medium dense, moist, well sorted 2.65-5.0' No recovery	FILL NR	
5 6 7 8 9	3.45/5	α: 104 β: 2410 PID: 0.0		5-7' Weathered tuff, brown (7.5YR5/3), granular, pebble size, rounded 7-8.4' CL, brown (7.5YR4/3), dense, moist, well sorted 8.4-10' No recovery	SOIL NR	
10 11 12 13 14	5/5	α: 98 β: 2080 PID: 0.0		10-15' Qbt4, white (7.5YR8/1), weathered, moderately welded, 40-50% ashy matrix, 30-40% phenocrysts, 5% pumices	Qbt4	
15 16 17 18 19	5/5	α: 59 β: 2430 PID: 0.0		15-20' Tuff; SAA		
20 21 22 23 24	5/5	α: 104 β: 2510 PID: 0.0		20-25' Tuff; SAA		
25 26 27 28 29	5/5	α: 72 β: 2110 PID: 0.0	28-30 ft bgs RE49-10-7046	25-30' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610481	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/24/09		End Date: 11/30/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2300 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 78 β: 2490 PID: 0.0		30-35' Tuff	Qbt4	
35 36 37 38 39	5/5	α: 59 β: 2120 PID: 0.0		35-40' Tuff; SAA		
40 41 42 43 44	5/5	α: 72 β: 2240 PID: 0.0		40-45' Tuff; SAA with increasing pumice size		
45 46 47 48 49	5/5	α: 104 β: 2270 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 59 β: 2510 PID: 0.0		50-55' Tuff; SAA		
55 56 57 58 59	5/5	α: 85 β: 2130 PID: 1.1		55-60' Qbt4, white (7.5YR8/1), non-weathered, moderately welded, 40-50% ashy matrix, 30-40% phenocrysts, 5-10% devitrified pumices		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610481	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/24/09		End Date: 11/30/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2300 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60	5/5				Qbt4	
61		α: 78				
62		β: 2560		60-65' Tuff; SAA		
63		PID: 0.7				
64						
65	5/5					
66		α: 98				
67		β: 2390		65-70' Tuff; SAA		
68		PID: 0.0				
69						
70	5/5					
71		α: 59				
72		β: 2680		70-75" Tuff; SAA		
73		PID: 0.0				
74						
75	4.3/5			75-76.4' Tuff; SAA		
76		α: 85		76.4-77.7' Surge bed		76.4 ft bgs Surge bed
77		β: 2540	76-79 ft bgs	77.7-79.3' Qbt3, light gray (7.5YR7/1), non-welded, non-weathered, 50-60% ashy matrix, 40-50% phenocrysts, <5% pumices	Qbt3	77.7 ft bgs Qbt3
78		PID: 0.0	RE49-10-7089			
79				79.3-80' No recovery		
80	5/5				Qbt3	
81		α: 78				
82		β: 2490		80-85' Tuff; SAA		
83		PID: 0.0				
84						
85	5/5					
86		α: 107				
87		β: 2680		85-90' Tuff; SAA		
88		PID: 0.0				
89						

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610481	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/24/09		End Date: 11/30/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 111 dpm	β BV: 2300 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	5/5	α: 59 β: 2460 PID: 0.0		90-95' Tuff; SAA	Qbt3	
95 96 97 98 99	3.2/5	α: 78 β: 2490 PID: 0.3		95-98.2' Tuff; SAA with increased welding 98.2-100' No recovery	Qbt3 NR	
100 101 102 103 104	3/5	α: 72 β: 2490 PID: 0.0		100-103' Tuff; SAA with increasing crystal content 103-105' No recovery	Qbt3 NR	
105 106 107 108 109	2.6/5	α: 78 β: 2510 PID: 0.0		105-107.6' Tuff; SAA 107.6-110' No recovery	Qbt3 NR	Formation is very welded. Auger refusal met.
110 111 112 113 114	2.5/5	α: 85 β: 2560 PID: 0.4		110-112.5' Tuff; SAA 112.5-115' No recovery	Qbt3 NR	Background: α: 50 dpm β: 2310 dpm
115 116 117 118 119	5/5	α: 45 β: 2690 PID: 0.5	118-120 ft bgs RE49-10-7044	115-120' Tuff; SAA	Qbt3	
120						**TOTAL DEPTH: 120 FT BGS**

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610485	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/23/09		End Date: 11/23/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 85 dpm	β BV: 2080 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0 1 2 3 4	3.55/5	α: 39 β: 1830 PID: 0.0	2-3.5 ft bgs RE49-10-7048	0-3.55' Ml with silt, brown (7.5YR4/4), loose, non-plastic, dry, sub-rounded 3.55-5.0' No recovery	SOIL NR	
5 6 7 8 9	3.5/5	α: 65 β: 2380 PID: 0.0		5-6.5' Weathered tuff, light brown (7.5YR6/4), granular, sub-rounded 6.5-7.5' Qbt4, white (7.5YR8/1), weathered, moderately welded, 60-70% ashy matrix, 30-40% phenocrysts 7.5-10' No recovery	NR	
10 11 12 13 14	5/5	α: 85 β: 2280 PID: 0.0		10-15' Qbt4, pink (7.5YR8/4), weathered, moderately welded, 50-60% ashy matrix, <5% devitrified pumices, 40-50% phenocryst	Qbt4	
15 16 17 18 19	5/5	α: 20 β: 2130 PID: 0.0		15-20' Tuff; SAA	Qbt4	
20 21 22 23 24	5/5	α: 85 β: 2360 PID: 1.0		20-25' Tuff; SAA with increasing pumices	Qbt4	
25 26 27 28 29	5/5	α: 111 β: 2130 PID: 0.0		25-30' Tuff; SAA	Qbt4	

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610485	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/23/09		End Date: 11/23/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 85 dpm	β BV: 2080 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
30 31 32 33 34	5/5	α: 45 β: 2610 PID: 0.0		30-35' Tuff	Qbt4	
35 36 37 38 39	5/5	α: 118 β: 2310 PID: 0.0		35-40' Tuff; SAA with increase in pumice size		
40 41 42 43 44	5/5	α: 91 β: 2340 PID: 0.4		40-45' Tuff; SAA		
45 46 47 48 49	5/5	α: 104 β: 2710 PID: 0.0		45-50' Tuff; SAA		
50 51 52 53 54	5/5	α: 65 β: 2490 PID: 1.0		50-55' Qbt4, white (7.5YR8/1), non-weathered, non-welded, 5% devitrified pumices, 40-50% ashy matrix, 40-50% phenocrysts		
55 56 57 58 59	5/5	α: 65 β: 2320 PID: 0.0		55-60' Tuff; SAA		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610485	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/23/09		End Date: 11/23/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 85 dpm	β BV: 2080 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
60 61 62 63 64	5/5	α: 52 β: 2390 PID: 1.5		60-65' Tuff; SAA	Qbt4	
65 66 67 68 69	5/5	α: 118 β: 2630 PID: 0.9		65-70' Tuff; SAA		
70 71 72 73 74	5/5	α: 59 β: 2540 PID: 1.7	73-75 ft bgs RE49-10-7049	70-75" Tuff; SAA		
75 76 77 78 79	5/5	α: 72 β: 2300 PID: 0.9		75-80' Tuff; SAA		
80 81 82 83 84	5/5	α: 91 β: 2910 PID: 1.0		80-85' Tuff; SAA		
85 86 87 88 89	5/5	α: 91 β: 2580 PID: 0.7	88-90 ft bgs RE49-10-7050	85-88' Tuff; SAA 88-90' Qbt3, whtie (7.5YR8/1), non-welded, non-weathered, 50-60% ashy matrix, 40-50% phenocrysts		

BOREHOLE LOG

Technical Area 49 (TA-49) Investigation Inside NES Boundary

Borehole ID: 49-610485	TA: 49-008 (d)	Drill Depth: 0 to 120 ft bgs		Total Pages: 5
Driller: Matt Cain (WDC)	Start Date: 11/23/09		End Date: 11/23/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 85 dpm	β BV: 2080 dpm	
Sampling Equipment/Method: 4" ID 5' Length Split-Barrel Sampler			Logged By: Mickey Jojola, TPMC	

DEPTH (ft bgs)	RECOVERY (ft/ft)	FIELD SCREENING RESULTS: alpha:beta (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
90 91 92 93 94	5/5	α: 39 β: 2250 PID: 0.6		90-95' Tuff; SAA	Qbt3	
95 96 97 98 99	5/5	α: 65 β: 2670 PID: 0.7		95-100' Tuff; SAA		
100 101 102 103 104	5/5	α: 72 β: 2250 PID: 0.7		100-105' Tuff; SAA		
105 106 107 108 109	5/5	α: 72 β: 2530 PID: 1.0		105-110' Tuff; SAA with increased welding		
110 111 112 113 114	5/5	α: 98 β: 2570 PID: 1.1		110-115' Tuff; SAA		
115 116 117 118 119	5/5	α: 85 β: 2550 PID: 0.8	118-120 ft bgs RE49-10-7051	115-120' Tuff; SAA		
120						**TOTAL DEPTH: 120 FT BGS**