

Appendix D

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

Table D-1
Area 6 West Category I Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-608961	RE49-10-2203	10/22/2009	805	0	6	69.62	15.13
49-608961	RE49-10-2204	10/22/2009	910	6	18	81.04	29.37
49-608962	RE49-10-2205	10/22/2009	1005	0	6	43.02	22.18
49-608962	RE49-10-2206	10/22/2009	1020	6	18	78.10	39.30
49-608963	RE49-10-2207	10/22/2009	1250	0	6	69.55	23.62
49-608963	RE49-10-2208	10/22/2009	1300	6	18	10.00	29.59
49-608964	RE49-10-2209	10/22/2009	1318	0	6	23.23	8.31
49-608964	RE49-10-2210	10/22/2009	1328	6	18	-5.52	34.16
49-608965	RE49-10-2211	10/22/2009	1334	0	6	87.35	34.38
49-608965	RE49-10-2212	10/22/2009	1341	6	18	203.19	17.29
49-608966	RE49-10-2213	10/22/2009	1350	0	6	100.68	19.69
49-608966	RE49-10-2214	10/22/2009	1405	6	18	44.26	17.80
49-608967	RE49-10-2215	10/22/2009	1430	0	6	123.25	16.23
49-608967	RE49-10-2216	10/22/2009	1437	6	18	98.74	41.19
49-608968	RE49-10-2217	10/22/2009	1442	0	6	-35.21	33.56
49-608968	RE49-10-2218	10/22/2009	1455	6	18	11.12	26.55
49-608969	RE49-10-2219	10/22/2009	1503	0	6	51.57	37.42
49-608969	RE49-10-2220	10/22/2009	1505	6	18	27.31	24.95
49-608970	RE49-10-2221	10/22/2009	1510	0	6	43.02	32.58
49-608970	RE49-10-2222	10/22/2009	1517	6	18	44.24	25.51
49-608971	RE49-10-2223	10/22/2009	1530	0	6	194.49	52.63
49-608971	RE49-10-2224	10/22/2009	1532	6	18	45.57	31.54
49-608972	RE49-10-2225	10/22/2009	1544	0	6	197.49	45.76
49-608972	RE49-10-2226	10/22/2009	1550	6	18	44.12	76.58
49-608973	RE49-10-2227	10/22/2009	1555	0	6	15.84	33.85
49-608973	RE49-10-2228	10/22/2009	1558	6	18	150.42	48.44
49-608974	RE49-10-2229	10/22/2009	1604	0	6	197.49	37.53
49-608974	RE49-10-2230	10/22/2009	1607	6	18	160.08	58.46
49-608975	RE49-10-2231	10/22/2009	1615	0	6	210.20	60.89
49-608975	RE49-10-2232	10/22/2009	1618	6	18	10.08	38.49
49-608976	RE49-10-2233	10/22/2009	1627	0	6	101.69	35.49
49-608976	RE49-10-2234	10/22/2009	1638	6	18	93.90	33.57
49-608977	RE49-10-2235	10/23/2009	844	0	6	105.29	26.25
49-608977	RE49-10-2236	10/23/2009	848	6	18	27.85	25.45
49-608978	RE49-10-2237	10/23/2009	854	0	6	42.59	25.05

Table D-1 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-608978	RE49-10-2238	10/23/2009	900	6	18	60.77	38.48
49-608979	RE49-10-2239	10/23/2009	905	0	6	33.37	34.81
49-608979	RE49-10-2240	10/23/2009	909	6	18	45.55	37.27
49-608980	RE49-10-2241	10/23/2009	915	0	6	140.80	28.76
49-608980	RE49-10-2242	10/23/2009	924	6	18	44.21	38.03
49-608981	RE49-10-2243	10/23/2009	944	0	6	33.61	47.43
49-608981	RE49-10-2244	10/23/2009	947	6	18	80.98	50.40
49-608982	RE49-10-2245	10/23/2009	1001	0	6	120.04	36.44
49-608982	RE49-10-2246	10/23/2009	1014	6	18	176.69	34.81
49-608983	RE49-10-2247	10/23/2009	1021	0	6	33.81	21.94
49-608983	RE49-10-2248	10/23/2009	1025	6	18	63.26	45.27
49-608984	RE49-10-2249	10/23/2009	1032	0	6	43.02	29.46
49-608984	RE49-10-2250	10/23/2009	1036	6	18	11.20	38.50
49-608985	RE49-10-2251	10/23/2009	1047	0	6	140.97	36.42
49-608985	RE49-10-2252	10/23/2009	1053	6	18	98.78	29.71

Table D-2

Area 6 West Category II Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-608986	RE49-10-2275	10/26/2009	1212	0	6	11.20	18.28
49-608986	RE49-10-2276	10/26/2009	1224	6	18	7.88	20.52
49-608987	RE49-10-2277	10/26/2009	1300	0	6	5.36	20.37
49-608987	RE49-10-2278	10/26/2009	1305	6	18	16.95	24.55
49-608988	RE49-10-2279	10/26/2009	1340	0	6	5.48	24.86
49-608988	RE49-10-2280	10/26/2009	1343	6	18	5.73	28.05
49-608989	RE49-10-2281	10/26/2009	1504	0	6	11.36	23.93
49-608989	RE49-10-2282	10/26/2009	1513	6	18	12.76	24.12
49-608990	RE49-10-2283	10/26/2009	1604	0	6	9.36	26.89
49-608990	RE49-10-2284	10/26/2009	1607	6	18	3.97	16.98
49-608991	RE49-10-2285	10/26/2009	1700	0	6	6.57	21.07
49-608991	RE49-10-2286	10/26/2009	1705	6	18	12.80	25.24
49-608992	RE49-10-2287	10/26/2009	1341	0	6	8.34	24.68
49-608992	RE49-10-2288	10/26/2009	1437	6	18	1.48	18.55
49-608993	RE49-10-2289	10/26/2009	1518	0	6	4.10	23.22

Table D-2 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-608993	RE49-10-2290	10/26/2009	1528	6	18	19.22	19.75
49-608994	RE49-10-2291	10/26/2009	1335	0	6	14.82	28.75
49-608994	RE49-10-2292	10/26/2009	1344	6	18	14.61	15.03
49-608995	RE49-10-2293	10/26/2009	1507	0	6	-2.08	18.17
49-608995	RE49-10-2294	10/26/2009	1515	6	18	6.38	20.69
49-608996	RE49-10-2295	10/26/2009	1657	0	6	7.15	25.75
49-608996	RE49-10-2296	10/26/2009	1705	6	18	9.96	20.59
49-608997	RE49-10-2297	10/27/2009	853	0	6	14.98	26.87
49-608997	RE49-10-2298	10/27/2009	900	6	18	12.87	25.38
49-608998	RE49-10-2299	10/27/2009	957	0	6	8.38	18.45
49-608998	RE49-10-2300	10/27/2009	1005	6	18	5.47	27.00
49-608999	RE49-10-2301	10/27/2009	1205	0	6	10.38	24.77
49-608999	RE49-10-2302	10/27/2009	1209	6	18	2.57	29.69
49-609000	RE49-10-2303	10/27/2009	822	0	6	2.30	19.67
49-609000	RE49-10-2304	10/27/2009	829	6	18	18.14	19.20
49-609001	RE49-10-2305	10/27/2009	824	0	6	11.83	23.46
49-609001	RE49-10-2306	10/27/2009	833	6	18	6.03	22.93
49-609002	RE49-10-2307	10/27/2009	1001	0	6	8.49	27.47
49-609002	RE49-10-2308	10/27/2009	1010	6	18	11.64	29.66
49-609003	RE49-10-2309	10/27/2009	1115	0	6	9.53	27.72
49-609003	RE49-10-2310	10/27/2009	1120	6	18	13.06	21.13
49-609004	RE49-10-2311	10/27/2009	1145	0	6	9.83	28.20
49-609004	RE49-10-2312	10/27/2009	1150	6	18	8.26	28.96
49-609005	RE49-10-2313	10/27/2009	1320	0	6	19.00	22.87
49-609005	RE49-10-2314	10/27/2009	1324	6	18	16.60	23.88
49-609006	RE49-10-2315	10/27/2009	1343	0	6	16.83	30.97
49-609006	RE49-10-2316	10/27/2009	1348	6	18	19.83	31.93
49-609007	RE49-10-2317	10/27/2009	1136	0	6	10.02	26.21
49-609007	RE49-10-2318	10/27/2009	1140	6	18	2.28	20.41
49-609008	RE49-10-2319	10/27/2009	1234	0	6	14.71	23.41
49-609008	RE49-10-2320	10/27/2009	1238	6	18	11.92	19.34

Table D-3
Area 6 West Category II Screening Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609023	RE49-10-2363	10/26/2009	1238	0	6	7.93	16.39
49-609023	RE49-10-2364	10/26/2009	1245	6	18	9.31	20.46
49-609024	RE49-10-2365	10/26/2009	1315	0	6	3.90	12.03
49-609024	RE49-10-2366	10/26/2009	1320	6	18	16.63	22.40
49-609025	RE49-10-2367	10/26/2009	1325	0	6	8.89	24.28
49-609025	RE49-10-2368	10/26/2009	1330	6	18	10.88	13.76
49-609026	RE49-10-2369	10/26/2009	1435	0	6	6.51	25.14
49-609026	RE49-10-2370	10/26/2009	1438	6	18	3.36	19.62
49-609027	RE49-10-2371	10/26/2009	1444	0	6	9.93	26.35
49-609027	RE49-10-2372	10/26/2009	1448	6	18	3.71	21.30
49-609028	RE49-10-2373	10/26/2009	1455	0	6	12.64	20.18
49-609028	RE49-10-2374	10/26/2009	1458	6	18	18.69	25.52
49-609029	RE49-10-2375	10/26/2009	1519	0	6	9.34	25.89
49-609029	RE49-10-2376	10/26/2009	1524	6	18	4.34	25.76
49-609030	RE49-10-2377	10/26/2009	1532	0	6	12.89	23.25
49-609030	RE49-10-2378	10/26/2009	1535	6	18	17.84	26.81
49-609031	RE49-10-2379	10/26/2009	1544	0	6	17.83	28.06
49-609031	RE49-10-2380	10/26/2009	1547	6	18	11.69	22.86
49-609032	RE49-10-2381	10/26/2009	1621	0	6	5.90	32.39
49-609032	RE49-10-2382	10/26/2009	1628	6	18	10.25	21.41
49-609033	RE49-10-2383	10/26/2009	1636	6	18	11.60	27.60
49-609033	RE49-10-2384	10/26/2009	1635	0	6	11.62	24.35
49-609034	RE49-10-2385	10/26/2009	1650	0	6	2.77	25.50
49-609034	RE49-10-2386	10/26/2009	1655	6	18	21.61	23.93
49-609035	RE49-10-2387	10/26/2009	1235	0	6	2.19	32.18
49-609035	RE49-10-2388	10/26/2009	1240	6	18	14.93	24.86
49-609036	RE49-10-2389	10/26/2009	1245	0	6	10.41	27.78
49-609036	RE49-10-2390	10/26/2009	1250	6	18	1.33	27.68
49-609037	RE49-10-2391	10/26/2009	1254	0	6	1.91	27.70
49-609037	RE49-10-2392	10/26/2009	1256	6	18	19.36	24.02
49-609038	RE49-10-2393	10/26/2009	1302	0	6	10.81	26.30
49-609038	RE49-10-2394	10/26/2009	1310	6	18	4.22	19.63
49-609039	RE49-10-2395	10/26/2009	1315	0	6	9.45	20.35
49-609039	RE49-10-2396	10/26/2009	1320	6	18	26.71	21.37
49-609040	RE49-10-2397	10/26/2009	1325	0	6	12.51	27.55

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609040	RE49-10-2398	10/26/2009	1328	6	18	8.43	20.01
49-609041	RE49-10-2399	10/26/2009	1332	0	6	14.39	16.01
49-609041	RE49-10-2400	10/26/2009	1335	6	18	8.03	23.60
49-609042	RE49-10-2401	10/26/2009	1442	0	6	13.68	21.13
49-609042	RE49-10-2402	10/26/2009	1446	6	18	6.43	26.62
49-609043	RE49-10-2403	10/26/2009	1452	0	6	21.83	22.34
49-609043	RE49-10-2404	10/26/2009	1458	6	18	19.46	17.77
49-609044	RE49-10-2405	10/26/2009	1503	0	6	17.04	24.12
49-609044	RE49-10-2406	10/26/2009	1507	6	18	10.30	18.89
49-609045	RE49-10-2407	10/26/2009	1532	0	6	10.70	26.04
49-609045	RE49-10-2408	10/26/2009	1537	6	18	11.09	28.36
49-609046	RE49-10-2409	10/26/2009	1545	0	6	5.31	24.01
49-609046	RE49-10-2410	10/26/2009	1552	6	18	7.64	15.57
49-609047	RE49-10-2411	10/26/2009	1557	0	6	9.61	24.96
49-609047	RE49-10-2412	10/26/2009	1601	6	18	8.98	18.56
49-609048	RE49-10-2413	10/26/2009	1612	0	6	12.02	23.17
49-609048	RE49-10-2414	10/26/2009	1615	6	18	7.78	18.15
49-609049	RE49-10-2415	10/26/2009	1621	0	6	8.39	23.50
49-609049	RE49-10-2416	10/26/2009	1630	6	18	11.09	28.36
49-609050	RE49-10-2417	10/26/2009	1638	0	6	4.28	25.54
49-609050	RE49-10-2418	10/26/2009	1644	6	18	8.56	19.08
49-609051	RE49-10-2419	10/26/2009	1650	0	6	16.19	26.87
49-609051	RE49-10-2420	10/26/2009	1705	6	18	6.15	22.07
49-609052	RE49-10-2421	10/26/2009	1708	0	6	12.19	23.91
49-609052	RE49-10-2422	10/26/2009	1715	6	18	3.53	33.25
49-609053	RE49-10-2423	10/26/2009	1400	0	6	15.28	23.44
49-609053	RE49-10-2424	10/26/2009	1438	6	18	6.85	26.77
49-609054	RE49-10-2425	10/26/2009	1450	0	6	13.62	24.04
49-609054	RE49-10-2426	10/26/2009	1459	6	18	4.26	20.84
49-609055	RE49-10-2427	10/26/2009	1521	0	6	6.93	28.52
49-609055	RE49-10-2428	10/26/2009	1530	6	18	6.37	23.67
49-609056	RE49-10-2429	10/26/2009	1537	0	6	1.52	19.14
49-609056	RE49-10-2430	10/26/2009	1542	6	18	4.02	21.22
49-609057	RE49-10-2431	10/26/2009	1550	0	6	5.63	23.25
49-609057	RE49-10-2432	10/26/2009	1600	6	18	8.84	25.89
49-609058	RE49-10-2433	10/26/2009	1608	0	6	4.30	17.48
49-609058	RE49-10-2434	10/26/2009	1615	6	18	1.76	24.70

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609059	RE49-10-2435	10/26/2009	1623	0	6	4.24	28.44
49-609059	RE49-10-2436	10/26/2009	1630	6	18	12.66	28.30
49-609060	RE49-10-2437	10/26/2009	1637	0	6	12.34	24.94
49-609060	RE49-10-2438	10/26/2009	1645	6	18	12.58	28.91
49-609061	RE49-10-2439	10/27/2009	817	0	6	5.89	24.17
49-609061	RE49-10-2440	10/27/2009	825	6	18	7.99	26.21
49-609062	RE49-10-2441	10/27/2009	830	0	6	13.49	26.26
49-609062	RE49-10-2442	10/27/2009	835	6	18	5.55	24.78
49-609063	RE49-10-2443	10/27/2009	839	0	6	7.62	25.43
49-609063	RE49-10-2444	10/27/2009	845	6	18	11.31	27.12
49-609064	RE49-10-2445	10/27/2009	911	0	6	5.90	18.99
49-609064	RE49-10-2446	10/27/2009	914	6	18	6.43	21.57
49-609065	RE49-10-2447	10/27/2009	915	0	6	10.51	28.13
49-609065	RE49-10-2448	10/27/2009	930	6	18	10.57	20.53
49-609066	RE49-10-2449	10/27/2009	1017	0	6	10.36	17.85
49-609066	RE49-10-2450	10/27/2009	1024	6	18	6.29	27.10
49-609067	RE49-10-2469	10/27/2009	1033	0	6	14.92	25.98
49-609067	RE49-10-2469	10/27/2009	1037	6	18	12.86	15.87
49-609068	RE49-10-2471	10/27/2009	1051	0	6	17.43	25.32
49-609068	RE49-10-2471	10/27/2009	1054	6	18	13.13	15.69
49-609069	RE49-10-2473	10/27/2009	1105	0	6	9.29	19.50
49-609069	RE49-10-2473	10/27/2009	1111	6	18	1.40	20.21
49-609070	RE49-10-2475	10/27/2009	835	0	6	3.90	23.55
49-609070	RE49-10-2476	10/27/2009	841	6	18	7.79	18.48
49-609071	RE49-10-2477	10/27/2009	847	0	6	8.85	23.44
49-609071	RE49-10-2478	10/27/2009	851	6	18	9.07	19.01
49-609072	RE49-10-2479	10/27/2009	855	0	6	4.00	19.89
49-609072	RE49-10-2480	10/27/2009	903	6	18	12.51	25.08
49-609073	RE49-10-2481	10/27/2009	909	0	6	5.59	29.89
49-609073	RE49-10-2482	10/27/2009	915	6	18	18.32	20.48
49-609074	RE49-10-2483	10/27/2009	923	0	6	9.11	19.79
49-609074	RE49-10-2484	10/27/2009	929	6	18	21.89	11.04
49-609075	RE49-10-2485	10/27/2009	934	0	6	11.55	27.42
49-609075	RE49-10-2486	10/27/2009	949	6	18	-0.34	17.41
49-609076	RE49-10-2487	10/27/2009	953	0	6	6.89	25.03
49-609076	RE49-10-2488	10/27/2009	1003	6	18	-0.08	24.96
49-609077	RE49-10-2489	10/27/2009	1007	0	6	-4.16	23.87

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609077	RE49-10-2490	10/27/2009	1011	6	18	5.24	22.35
49-609078	RE49-10-2491	10/27/2009	1015	0	6	16.70	18.34
49-609078	RE49-10-2492	10/27/2009	1022	6	18	7.38	20.28
49-609079	RE49-10-2493	10/27/2009	1028	0	6	14.28	23.28
49-609079	RE49-10-2494	10/27/2009	1035	6	18	-1.32	24.44
49-609080	RE49-10-2495	10/27/2009	1041	0	6	6.23	23.48
49-609080	RE49-10-2496	10/27/2009	1044	6	18	8.56	27.75
49-609081	RE49-10-2497	10/27/2009	1050	0	6	8.06	25.37
49-609081	RE49-10-2498	10/27/2009	1055	6	18	2.16	24.90
49-609082	RE49-10-2499	10/27/2009	1058	0	6	0.36	20.60
49-609082	RE49-10-2500	10/27/2009	1105	6	18	3.49	22.02
49-609083	RE49-10-2501	10/27/2009	1109	0	6	7.71	19.45
49-609083	RE49-10-2502	10/27/2009	1113	6	18	9.25	12.78
49-609084	RE49-10-2503	10/27/2009	1124	0	6	7.99	17.49
49-609084	RE49-10-2504	10/27/2009	1130	6	18	8.21	18.49
49-609085	RE49-10-2505	10/27/2009	1145	0	6	14.86	23.32
49-609085	RE49-10-2506	10/27/2009	1149	6	18	14.88	25.26
49-609086	RE49-10-2507	10/27/2009	845	0	6	4.35	23.22
49-609086	RE49-10-2508	10/27/2009	853	6	18	2.65	24.48
49-609087	RE49-10-2509	10/27/2009	901	0	6	6.07	23.36
49-609087	RE49-10-2510	10/27/2009	908	6	18	10.17	19.76
49-609088	RE49-10-2511	10/27/2009	915	0	6	2.32	31.59
49-609088	RE49-10-2512	10/27/2009	928	6	18	1.53	21.81
49-609089	RE49-10-2513	10/27/2009	1020	0	6	3.82	18.89
49-609089	RE49-10-2514	10/27/2009	1025	6	18	4.94	20.73
49-609090	RE49-10-2515	10/27/2009	1036	0	6	8.14	18.23
49-609090	RE49-10-2516	10/27/2009	1042	6	18	25.55	19.57
49-609091	RE49-10-2517	10/27/2009	1055	0	6	-1.28	16.15
49-609091	RE49-10-2518	10/27/2009	1106	6	18	0.54	21.14
49-609092	RE49-10-2519	10/27/2009	1128	0	6	14.38	25.58
49-609092	RE49-10-2520	10/27/2009	1137	6	18	4.43	18.32
49-609093	RE49-10-2521	10/27/2009	1142	0	6	14.41	15.65
49-609093	RE49-10-2522	10/27/2009	1148	6	18	6.99	16.20
49-609094	RE49-10-2523	10/27/2009	1155	0	6	8.96	33.30
49-609094	RE49-10-2524	10/27/2009	1215	6	18	6.06	18.06
49-609095	RE49-10-2525	10/27/2009	1245	0	6	5.76	14.48
49-609095	RE49-10-2526	10/27/2009	1251	6	18	14.79	28.13

Table D-3 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609096	RE49-10-2527	10/27/2009	1300	0	6	4.37	16.55
49-609096	RE49-10-2528	10/27/2009	1302	6	18	2.63	20.62
49-609097	RE49-10-2529	10/27/2009	1320	0	6	10.10	21.91
49-609097	RE49-10-2530	10/27/2009	1325	6	18	5.85	24.28
49-609098	RE49-10-2531	10/27/2009	1310	0	6	4.36	19.80
49-609098	RE49-10-2532	10/27/2009	1316	6	18	3.55	31.77
49-609099	RE49-10-2533	10/27/2009	1235	0	6	1.80	23.67
49-609099	RE49-10-2534	10/27/2009	1242	6	18	15.58	21.63
49-609100	RE49-10-2535	10/27/2009	1248	0	6	8.07	21.37
49-609100	RE49-10-2536	10/27/2009	1252	6	18	6.45	16.39
49-609101	RE49-10-2537	10/27/2009	1258	0	6	0.79	18.79
49-609101	RE49-10-2538	10/27/2009	1304	6	18	8.62	15.05
49-609102	RE49-10-2539	10/27/2009	1154	0	6	-0.07	25.68
49-609102	RE49-10-2540	10/27/2009	1200	6	18	8.25	20.81
49-609103	RE49-10-2541	10/27/2009	1310	0	6	8.36	23.89
49-609103	RE49-10-2542	10/27/2009	1316	6	18	10.88	18.27
49-609104	RE49-10-2543	10/27/2009	1125	0	6	7.05	21.69
49-609104	RE49-10-2544	10/27/2009	1128	6	18	1.96	22.75
49-609105	RE49-10-2545	10/27/2009	1230	0	6	5.59	22.31
49-609105	RE49-10-2546	10/27/2009	1234	6	18	5.35	18.45
49-609105	RE49-10-2547	10/27/2009	1251	0	6	18.96	29.87
49-609106	RE49-10-2548	10/27/2009	1254	6	18	7.99	23.01
49-609107	RE49-10-2549	10/27/2009	1305	0	6	9.55	21.39
49-609107	RE49-10-2550	10/27/2009	1310	6	18	-0.47	30.24
49-609108	RE49-10-2551	10/27/2009	1325	0	6	18.59	22.45
49-609108	RE49-10-2552	10/27/2009	1330	6	18	3.74	23.69
49-609109	RE49-10-2553	10/27/2009	1335	0	6	8.02	29.25
49-609109	RE49-10-2554	10/27/2009	1338	6	18	12.93	18.59
49-609110	RE49-10-2555	10/27/2009	1352	0	6	12.49	31.73
49-609110	RE49-10-2556	10/27/2009	1357	6	18	12.72	25.85
49-609111	RE49-10-2557	10/27/2009	1400	0	6	8.11	22.71
49-609111	RE49-10-2558	10/27/2009	1406	6	18	6.09	28.02

Table D-4
Area 6 West Category III Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609009	RE49-10-2329	10/29/2009	830	0	6	19.49	24.58
49-609009	RE49-10-2330	10/29/2009	844	6	18	2.75	27.17
49-609010	RE49-10-2331	10/29/2009	905	0	6	10.06	23.35
49-609010	RE49-10-2332	10/29/2009	928	6	18	10.46	25.90
49-609011	RE49-10-2333	10/29/2009	948	0	6	12.96	32.69
49-609011	RE49-10-2334	10/29/2009	1002	6	18	10.32	26.21
49-609012	RE49-10-2335	10/29/2009	1020	0	6	8.06	27.02
49-609012	RE49-10-2336	10/29/2009	1023	6	18	9.88	26.86
49-609013	RE49-10-2337	10/29/2009	1055	0	6	6.36	28.63
49-609013	RE49-10-2338	10/29/2009	1102	6	18	3.32	25.83
49-609014	RE49-10-2339	10/29/2009	830	0	6	10.03	28.98
49-609014	RE49-10-2340	10/29/2009	830	6	18	1.62	28.31
49-609015	RE49-10-2341	10/29/2009	1503	0	6	5.16	23.96
49-609015	RE49-10-2342	10/29/2009	1512	6	18	6.05	28.18
49-609016	RE49-10-2343	10/29/2009	1616	0	6	5.31	21.06
49-609016	RE49-10-2344	10/29/2009	1620	6	18	5.81	21.98
49-609017	RE49-10-2345	10/29/2009	1555	0	6	3.75	26.99
49-609017	RE49-10-2346	10/29/2009	1600	6	18	17.94	20.23
49-609018	RE49-10-2347	10/29/2009	1533	0	6	6.25	23.39
49-609018	RE49-10-2348	10/29/2009	1536	6	18	7.52	18.60
49-609019	RE49-10-2349	10/30/2009	1025	0	6	13.86	26.04
49-609019	RE49-10-2350	10/30/2009	1028	6	18	12.59	27.68
49-609020	RE49-10-2351	10/30/2009	1017	0	6	8.40	26.75
49-609020	RE49-10-2352	10/30/2009	1018	6	18	12.28	26.52
49-609021	RE49-10-2353	10/29/2009	1120	0	6	5.88	26.59
49-609021	RE49-10-2354	10/29/2009	1122	6	18	7.86	24.19
49-609022	RE49-10-2355	10/29/2009	1042	0	6	20.41	27.36
49-609022	RE49-10-2356	10/29/2009	1045	6	18	-0.06	26.18

Table D-5
Area 6 West Category III Screening Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609112	RE49-10-2577	10/29/2009	816	0	6	2.34	28.24
49-609112	RE49-10-2578	10/29/2009	818	6	18	10.07	30.38
49-609113	RE49-10-2579	10/29/2009	845	0	6	19.83	33.28
49-609113	RE49-10-2580	10/29/2009	858	6	18	7.12	26.83
49-609114	RE49-10-2581	10/29/2009	930	0	6	4.00	26.35
49-609114	RE49-10-2582	10/29/2009	943	6	18	-1.98	16.23
49-609115	RE49-10-2583	10/29/2009	1005	0	6	9.11	21.09
49-609115	RE49-10-2584	10/29/2009	1014	6	18	12.76	23.76
49-609116	RE49-10-2585	10/29/2009	1035	0	6	2.36	26.11
49-609116	RE49-10-2586	10/29/2009	1037	6	18	12.86	20.33
49-609117	RE49-10-2587	10/29/2009	1045	0	6	1.99	22.38
49-609117	RE49-10-2588	10/29/2009	1049	6	18	0.19	24.58
49-609118	RE49-10-2589	10/29/2009	815	0	6	9.71	19.72
49-609118	RE49-10-2590	10/29/2009	818	6	18	16.35	28.54
49-609119	RE49-10-2591	10/29/2009	822	0	6	3.68	23.92
49-609119	RE49-10-2592	10/29/2009	829	6	18	12.99	18.56
49-609120	RE49-10-2593	10/29/2009	833	0	6	-0.12	20.73
49-609120	RE49-10-2594	10/29/2009	839	6	18	-1.90	16.14
49-609121	RE49-10-2595	10/29/2009	846	0	6	13.28	27.96
49-609121	RE49-10-2596	10/29/2009	850	6	18	4.20	20.79
49-609122	RE49-10-2597	10/29/2009	900	0	6	10.10	21.47
49-609122	RE49-10-2598	10/29/2009	905	6	18	4.45	13.23
49-609123	RE49-10-2599	10/29/2009	925	0	6	10.12	15.11
49-609123	RE49-10-2600	10/29/2009	932	6	18	10.57	10.31
49-609124	RE49-10-2601	10/29/2009	940	0	6	15.04	22.42
49-609124	RE49-10-2602	10/29/2009	945	6	18	9.14	23.73
49-609125	RE49-10-2603	10/29/2009	950	0	6	7.42	16.61
49-609125	RE49-10-2604	10/29/2009	1010	6	18	1.41	16.47
49-609126	RE49-10-2605	10/29/2009	1015	0	6	9.18	31.72
49-609126	RE49-10-2606	10/29/2009	1020	6	18	4.13	18.64
49-609127	RE49-10-2607	10/29/2009	1025	0	6	13.64	22.20
49-609127	RE49-10-2608	10/29/2009	1030	6	18	14.97	23.12
49-609128	RE49-10-2609	10/29/2009	1040	0	6	4.32	25.49
49-609128	RE49-10-2610	10/29/2009	1045	6	18	5.68	22.71
49-609129	RE49-10-2611	10/29/2009	1053	0	6	0.43	17.61

Table D-5 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609129	RE49-10-2612	10/29/2009	1105	6	18	-1.34	26.47
49-609130	RE49-10-2613	10/29/2009	809	0	6	6.39	21.13
49-609130	RE49-10-2614	10/29/2009	815	6	18	10.41	14.76
49-609131	RE49-10-2615	10/29/2009	851	0	6	12.05	37.80
49-609131	RE49-10-2616	10/29/2009	854	6	18	4.12	23.42
49-609132	RE49-10-2617	10/29/2009	1019	0	6	-1.62	21.91
49-609132	RE49-10-2618	10/29/2009	1027	6	18	3.66	18.52
49-609133	RE49-10-2619	10/29/2009	1034	0	6	5.83	17.49
49-609133	RE49-10-2620	10/29/2009	1037	6	18	2.80	28.90
49-609134	RE49-10-2621	10/29/2009	1010	0	6	14.44	24.22
49-609134	RE49-10-2622	10/29/2009	1013	6	18	10.72	20.51
49-609135	RE49-10-2623	10/29/2009	1102	0	6	4.90	20.50
49-609135	RE49-10-2624	10/29/2009	1105	6	18	2.60	19.58
49-609136	RE49-10-2625	10/29/2009	1107	0	6	5.21	27.87
49-609136	RE49-10-2626	10/29/2009	1109	6	18	14.11	24.84
49-609137	RE49-10-2627	10/29/2009	900	0	6	11.25	23.24
49-609137	RE49-10-2628	10/29/2009	902	6	18	9.41	28.54
49-609138	RE49-10-2629	10/29/2009	905	0	6	11.88	23.81
49-609138	RE49-10-2630	10/29/2009	929	6	18	7.68	26.09
49-609139	RE49-10-2631	10/29/2009	1119	0	6	5.99	21.91
49-609139	RE49-10-2632	10/29/2009	1121	6	18	10.71	29.46
49-609140	RE49-10-2633	10/29/2009	943	0	6	5.69	15.29
49-609140	RE49-10-2634	10/29/2009	946	6	18	1.98	22.44
49-609141	RE49-10-2635	10/29/2009	932	0	6	13.11	17.79
49-609141	RE49-10-2636	10/29/2009	935	6	18	9.47	22.55
49-609142	RE49-10-2637	10/29/2009	1523	0	6	10.37	15.20
49-609142	RE49-10-2638	10/29/2009	1530	6	18	14.91	23.66
49-609143	RE49-10-2639	10/29/2009	1530	0	6	8.09	30.30
49-609143	RE49-10-2640	10/29/2009	1542	6	18	5.68	26.34
49-609144	RE49-10-2641	10/29/2009	1545	0	6	1.54	21.57
49-609144	RE49-10-2642	10/29/2009	1553	6	18	2.38	22.63
49-609145	RE49-10-2643	10/29/2009	1600	0	6	5.68	30.41
49-609145	RE49-10-2644	10/29/2009	1606	6	18	10.64	27.55
49-609146	RE49-10-2645	10/29/2009	1612	0	6	4.35	20.54
49-609146	RE49-10-2646	10/29/2009	1628	6	18	3.07	24.97
49-609147	RE49-10-2647	10/29/2009	1625	0	6	19.71	47.97
49-609147	RE49-10-2648	10/29/2009	1640	6	18	2.14	10.24

Table D-5 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609148	RE49-10-2649	10/29/2009	1640	0	6	11.27	17.88
49-609148	RE49-10-2650	10/29/2009	1645	6	18	9.69	21.01
49-609149	RE49-10-2651	10/29/2009	1645	0	6	7.71	17.98
49-609149	RE49-10-2652	10/29/2009	1654	6	18	9.57	13.25
49-609150	RE49-10-2653	10/29/2009	1510	0	6	16.36	21.62
49-609150	RE49-10-2654	10/29/2009	1515	6	18	4.08	27.57
49-609151	RE49-10-2655	10/29/2009	1520	0	6	11.75	17.07
49-609151	RE49-10-2656	10/29/2009	1527	6	18	12.89	18.53
49-609152	RE49-10-2657	10/29/2009	1543	0	6	7.26	20.14
49-609152	RE49-10-2658	10/29/2009	1547	6	18	7.75	24.35
49-609153	RE49-10-2659	10/29/2009	1604	0	6	6.56	11.38
49-609153	RE49-10-2660	10/29/2009	1607	6	18	7.41	39.97
49-609154	RE49-10-2661	10/29/2009	1625	0	6	16.72	22.69
49-609154	RE49-10-2662	10/29/2009	1630	6	18	12.32	28.16
49-609155	RE49-10-2663	10/29/2009	1648	0	6	7.49	24.08
49-609155	RE49-10-2664	10/29/2009	1650	6	18	9.13	25.48
49-609156	RE49-10-2665	10/30/2009	855	0	6	11.82	20.20
49-609156	RE49-10-2666	10/30/2009	900	6	18	6.43	25.99
49-609157	RE49-10-2667	10/30/2009	910	0	6	0.81	22.75
49-609157	RE49-10-2668	10/30/2009	912	6	18	2.16	20.68
49-609158	RE49-10-2669	10/30/2009	917	0	6	2.37	29.52
49-609158	RE49-10-2670	10/30/2009	918	6	18	7.85	24.46
49-609159	RE49-10-2671	10/30/2009	918	0	6	9.58	17.83
49-609159	RE49-10-2672	10/30/2009	919	6	18	4.59	31.05
49-609160	RE49-10-2673	10/30/2009	935	0	6	7.83	27.99
49-609160	RE49-10-2674	10/30/2009	937	6	18	4.45	14.66
49-609161	RE49-10-2675	10/30/2009	940	0	6	4.86	31.87
49-609161	RE49-10-2676	10/30/2009	942	6	18	8.68	33.84
49-609162	RE49-10-2677	10/30/2009	957	0	6	14.22	29.36
49-609162	RE49-10-2678	10/30/2009	959	6	18	0.42	26.66
49-609163	RE49-10-2679	10/30/2009	1000	0	6	4.56	13.69
49-609163	RE49-10-2680	10/30/2009	1001	6	18	12.79	22.47
49-609164	RE49-10-2681	10/30/2009	1009	0	6	3.75	27.15
49-609164	RE49-10-2682	10/30/2009	1010	6	18	5.62	32.17
49-609165	RE49-10-2683	10/30/2009	1015	0	6	3.39	26.44
49-609165	RE49-10-2684	10/30/2009	1016	6	18	9.91	26.17

Table D-6
Area 10 Category I Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609540	RE49-10-4003	11/2/2009	824	0	6	6.85	27.63
49-609540	RE49-10-4004	11/2/2009	827	6	18	6.26	30.22
49-609541	RE49-10-4005	11/2/2009	824	0	6	-0.29	28.25
49-609541	RE49-10-4006	11/2/2009	827	6	18	3.56	33.82
49-609542	RE49-10-4007	11/2/2009	855	0	6	9.91	15.23
49-609542	RE49-10-4008	11/2/2009	900	6	18	7.48	27.53
49-609543	RE49-10-4009	11/2/2009	855	0	6	8.24	35.88
49-609543	RE49-10-4010	11/2/2009	900	6	18	17.78	28.59
49-609544	RE49-10-4011	11/2/2009	910	0	6	4.28	21.03
49-609544	RE49-10-4012	11/2/2009	915	6	18	4.51	19.48
49-609545	RE49-10-4013	11/2/2009	919	0	6	2.07	18.36
49-609545	RE49-10-4014	11/2/2009	923	6	18	11.54	24.93
49-609546	RE49-10-4015	11/2/2009	920	0	6	2.34	20.46
49-609546	RE49-10-4016	11/2/2009	925	6	18	5.48	24.82
49-609547	RE49-10-4017	11/2/2009	935	0	6	13.68	28.02
49-609547	RE49-10-4018	11/2/2009	940	6	18	11.02	27.03

Table D-7
Area 10 Category II Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609548	RE49-10-4023	11/2/2009	1010	0	6	9.98	24.83
49-609548	RE49-10-4024	11/2/2009	1012	6	18	6.09	22.44
49-609549	RE49-10-4025	11/2/2009	1024	0	6	6.53	28.91
49-609549	RE49-10-4026	11/2/2009	1029	6	18	2.49	24.85
49-609550	RE49-10-4027	11/2/2009	1030	0	6	12.31	14.82
49-609550	RE49-10-4028	11/2/2009	1034	6	18	8.18	16.48
49-609551	RE49-10-4029	11/2/2009	1055	0	6	7.08	21.69
49-609551	RE49-10-4030	11/2/2009	1059	6	18	5.13	20.10
49-609552	RE49-10-4031	11/2/2009	1109	0	6	4.38	24.03
49-609552	RE49-10-4032	11/2/2009	1113	6	18	3.63	16.27
49-609553	RE49-10-4033	11/2/2009	1406	0	6	14.39	21.16
49-609553	RE49-10-4034	11/2/2009	1408	6	18	8.37	31.48
49-609554	RE49-10-4035	11/2/2009	1423	0	6	13.47	25.57
49-609554	RE49-10-4036	11/2/2009	1425	6	18	10.56	32.95
49-609555	RE49-10-4037	11/2/2009	1430	0	6	10.05	31.49
49-609555	RE49-10-4038	11/2/2009	1432	6	18	9.91	24.35
49-609556	RE49-10-4039	11/2/2009	1445	0	6	9.83	21.94
49-609556	RE49-10-4040	11/2/2009	1447	6	18	7.60	25.67
49-609557	RE49-10-4041	11/2/2009	1508	0	6	3.78	16.09
49-609557	RE49-10-4042	11/2/2009	1510	6	18	24.23	18.77
49-609558	RE49-10-4043	11/3/2009	825	0	6	13.49	35.87
49-609558	RE49-10-4044	11/3/2009	827	6	18	10.80	32.16
49-609559	RE49-10-4045	11/3/2009	836	0	6	8.80	33.02
49-609559	RE49-10-4046	11/3/2009	836	6	18	2.50	25.43
49-609560	RE49-10-4047	11/3/2009	855	0	6	25.73	28.71
49-609560	RE49-10-4048	11/3/2009	857	6	18	19.88	33.68

Table D-8
Area 10 Category II Screening Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609571	RE49-10-4079	11/2/2009	940	0	6	10.17	30.94
49-609571	RE49-10-4080	11/2/2009	945	6	18	5.34	35.07
49-609572	RE49-10-4081	11/2/2009	1000	0	6	8.34	38.73
49-609572	RE49-10-4082	11/2/2009	1003	6	18	5.53	27.01
49-609573	RE49-10-4083	11/2/2009	1015	0	6	9.78	31.27
49-609573	RE49-10-4084	11/2/2009	1017	6	18	5.07	28.17
49-609574	RE49-10-4085	11/2/2009	1020	0	6	16.72	37.72
49-609574	RE49-10-4086	11/2/2009	1025	6	18	0.70	25.81
49-609575	RE49-10-4087	11/2/2009	1038	0	6	16.87	25.63
49-609575	RE49-10-4088	11/2/2009	1041	6	18	10.20	27.36
49-609576	RE49-10-4089	11/2/2009	1038	0	6	6.39	28.13
49-609576	RE49-10-4090	11/2/2009	1041	6	18	19.35	33.40
49-609577	RE49-10-4091	11/2/2009	1103	0	6	3.86	35.55
49-609577	RE49-10-4092	11/2/2009	1106	6	18	9.61	25.33
49-609578	RE49-10-4093	11/2/2009	1058	0	6	13.26	25.52
49-609578	RE49-10-4094	11/2/2009	1100	6	18	29.82	26.78
49-609579	RE49-10-4095	11/2/2009	1115	0	6	15.61	27.47
49-609579	RE49-10-4096	11/2/2009	1119	6	18	19.14	29.42
49-609580	RE49-10-4097	11/2/2009	1120	0	6	14.35	22.40
49-609580	RE49-10-4098	11/2/2009	1123	6	18	7.97	28.81
49-609581	RE49-10-4099	11/2/2009	1130	0	6	7.93	31.01
49-609581	RE49-10-4100	11/2/2009	1132	6	18	-0.41	22.01
49-609582	RE49-10-4101	11/2/2009	1133	0	6	7.95	16.60
49-609582	RE49-10-4102	11/2/2009	1137	6	18	11.07	17.47
49-609583	RE49-10-4103	11/2/2009	1133	0	6	8.99	23.27
49-609583	RE49-10-4104	11/2/2009	1137	6	18	5.01	28.96
49-609584	RE49-10-4105	11/2/2009	1159	0	6	6.38	16.03
49-609584	RE49-10-4106	11/2/2009	1201	6	18	15.59	23.41
49-609585	RE49-10-4107	11/2/2009	1159	0	6	6.08	29.34
49-609585	RE49-10-4108	11/2/2009	1201	6	18	6.32	33.04
49-609586	RE49-10-4109	11/2/2009	1201	0	6	2.64	18.52
49-609586	RE49-10-4110	11/2/2009	1205	6	18	8.17	30.43
49-609587	RE49-10-4111	11/2/2009	1205	0	6	4.09	22.12
49-609587	RE49-10-4112	11/2/2009	1209	6	18	20.35	15.80
49-609588	RE49-10-4113	11/2/2009	1328	0	6	4.07	12.62

Table D-8 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609588	RE49-10-4114	11/2/2009	1328	6	18	0.12	24.58
49-609589	RE49-10-4115	11/2/2009	1325	0	6	15.39	31.02
49-609589	RE49-10-4116	11/2/2009	1325	6	18	4.93	22.61
49-609590	RE49-10-4117	11/2/2009	1335	0	6	1.39	31.48
49-609590	RE49-10-4118	11/2/2009	1336	6	18	20.99	20.38
49-609591	RE49-10-4119	11/2/2009	1340	0	6	-0.16	16.40
49-609591	RE49-10-4120	11/2/2009	1341	6	18	3.42	21.33
49-609592	RE49-10-4121	11/2/2009	1343	0	6	-1.69	22.82
49-609592	RE49-10-4122	11/2/2009	1345	6	18	1.68	24.86
49-609593	RE49-10-4123	11/2/2009	1347	0	6	6.48	17.58
49-609593	RE49-10-4124	11/2/2009	1349	6	18	-3.40	27.44
49-609594	RE49-10-4125	11/2/2009	1358	0	6	8.39	25.70
49-609594	RE49-10-4126	11/2/2009	1400	6	18	4.62	23.58
49-609595	RE49-10-4127	11/2/2009	1356	0	6	20.03	24.02
49-609595	RE49-10-4128	11/2/2009	1358	6	18	16.04	27.38
49-609596	RE49-10-4129	11/2/2009	1404	0	6	8.32	19.53
49-609596	RE49-10-4130	11/2/2009	1406	6	18	14.43	15.73
49-609597	RE49-10-4131	11/2/2009	1415	0	6	3.76	19.67
49-609597	RE49-10-4132	11/2/2009	1417	6	18	7.26	25.42
49-609598	RE49-10-4133	11/2/2009	1412	0	6	10.39	14.54
49-609598	RE49-10-4134	11/2/2009	1414	6	18	8.70	21.46
49-609599	RE49-10-4135	11/2/2009	1425	0	6	2.80	18.24
49-609599	RE49-10-4136	11/2/2009	1427	6	18	14.79	19.79
49-609600	RE49-10-4137	11/2/2009	1430	0	6	3.33	19.97
49-609600	RE49-10-4138	11/2/2009	1432	6	18	27.91	33.79
49-609601	RE49-10-4139	11/2/2009	1442	0	6	10.19	38.09
49-609601	RE49-10-4140	11/2/2009	1444	6	18	8.92	21.63
49-609602	RE49-10-4141	11/2/2009	1450	0	6	24.25	29.97
49-609602	RE49-10-4142	11/2/2009	1452	6	18	5.82	22.61
49-609603	RE49-10-4143	11/2/2009	1457	0	6	6.54	27.40
49-609603	RE49-10-4144	11/2/2009	1459	6	18	7.03	29.58
49-609604	RE49-10-4145	11/2/2009	1502	0	6	8.41	31.58
49-609604	RE49-10-4146	11/2/2009	1504	6	18	4.58	23.20
49-609605	RE49-10-4147	11/2/2009	1517	0	6	8.97	32.79
49-609605	RE49-10-4148	11/2/2009	1520	6	18	4.17	23.19
49-609606	RE49-10-4149	11/2/2009	1517	0	6	15.46	33.45
49-609606	RE49-10-4150	11/2/2009	1519	6	18	3.77	24.60

Table D-8 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609607	RE49-10-4151	11/2/2009	1528	0	6	13.53	29.06
49-609607	RE49-10-4152	11/2/2009	1530	6	18	5.33	29.74
49-609608	RE49-10-4153	11/2/2009	1537	0	6	8.53	44.94
49-609608	RE49-10-4154	11/2/2009	1540	6	18	8.71	22.66
49-609609	RE49-10-4155	11/2/2009	1538	0	6	8.04	37.43
49-609609	RE49-10-4156	11/2/2009	1541	6	18	4.94	31.82
49-609610	RE49-10-4157	11/2/2009	1546	0	6	16.80	39.50
49-609610	RE49-10-4158	11/2/2009	1548	6	18	3.78	25.48
49-609611	RE49-10-4159	11/2/2009	1548	0	6	5.83	26.35
49-609611	RE49-10-4160	11/2/2009	1550	6	18	9.07	29.26
49-609612	RE49-10-4161	11/2/2009	1553	0	6	10.30	26.14
49-609612	RE49-10-4162	11/2/2009	1555	6	18	5.54	25.81
49-609613	RE49-10-4163	11/2/2009	1558	0	6	9.67	29.74
49-609613	RE49-10-4164	11/2/2009	1600	6	18	2.82	25.42
49-609614	RE49-10-4165	11/2/2009	1600	0	6	2.34	19.04
49-609614	RE49-10-4166	11/2/2009	1602	6	18	12.25	26.96
49-609615	RE49-10-4167	11/2/2009	1604	0	6	7.86	27.12
49-609615	RE49-10-4168	11/2/2009	1604	6	18	10.16	23.56
49-609616	RE49-10-4169	11/3/2009	824	0	6	2.25	49.71
49-609616	RE49-10-4170	11/3/2009	826	6	18	18.20	29.59
49-609617	RE49-10-4171	11/3/2009	836	0	6	9.92	30.88
49-609617	RE49-10-4172	11/3/2009	838	6	18	11.02	24.26
49-609618	RE49-10-4173	11/3/2009	847	0	6	12.40	29.98
49-609618	RE49-10-4174	11/3/2009	849	6	18	6.59	29.63
49-609619	RE49-10-4175	11/3/2009	851	0	6	13.19	30.73
49-609619	RE49-10-4176	11/3/2009	853	6	18	6.66	28.26
49-609620	RE49-10-4177	11/3/2009	912	0	6	15.53	29.95
49-609620	RE49-10-4178	11/3/2009	914	6	18	15.96	25.53

Table D-9
Area 10 Category III Biased Sample Information and Radiological Screening Results

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609561	RE49-10-4055	11/3/2009	928	0	6	7.52	20.36
49-609561	RE49-10-4056	11/3/2009	930	6	18	8.78	36.15
49-609562	RE49-10-4057	11/3/2009	953	0	6	13.06	32.05
49-609562	RE49-10-4058	11/3/2009	955	6	18	5.47	28.67
49-609563	RE49-10-4059	11/3/2009	1430	0	6	4.25	28.11
49-609563	RE49-10-4060	11/3/2009	1433	6	18	10.41	23.72
49-609564	RE49-10-4061	11/3/2009	1006	0	6	19.86	20.42
49-609564	RE49-10-4062	11/3/2009	1008	6	18	8.30	20.85
49-609565	RE49-10-4063	11/3/2009	1057	0	6	9.40	17.72
49-609565	RE49-10-4064	11/3/2009	1059	6	18	9.65	25.70
49-609566	RE49-10-4065	11/3/2009	1118	0	6	10.07	20.92
49-609566	RE49-10-4066	11/3/2009	1120	6	18	15.91	29.36
49-609567	RE49-10-4067	11/3/2009	1124	0	6	9.42	26.44
49-609567	RE49-10-4068	11/3/2009	1126	6	18	8.99	26.98
49-609568	RE49-10-4069	11/3/2009	1334	0	6	11.73	37.67
49-609568	RE49-10-4070	11/3/2009	1339	6	18	6.38	29.50
49-609569	RE49-10-4071	11/3/2009	1413	0	6	12.46	32.85
49-609569	RE49-10-4072	11/3/2009	1417	6	18	16.65	32.33
49-609570	RE49-10-4073	11/3/2009	1427	0	6	9.82	24.49
49-609570	RE49-10-4074	11/3/2009	1429	6	18	22.78	28.69

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

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609621	RE49-10-4199	11/3/2009	912	0	6	19.53	25.83
49-609621	RE49-10-4200	11/3/2009	914	6	18	1.56	33.65
49-609622	RE49-10-4201	11/3/2009	922	0	6	4.55	20.06
49-609622	RE49-10-4202	11/3/2009	924	6	18	9.32	37.14
49-609623	RE49-10-4203	11/3/2009	932	0	6	7.18	30.92
49-609623	RE49-10-4204	11/3/2009	934	6	18	11.87	32.66
49-609624	RE49-10-4205	11/3/2009	953	0	6	16.96	27.56
49-609624	RE49-10-4206	11/3/2009	955	6	18	6.69	27.27
49-609625	RE49-10-4207	11/3/2009	958	0	6	4.05	21.91
49-609625	RE49-10-4208	11/3/2009	959	6	18	16.40	23.21
49-609626	RE49-10-4209	11/3/2009	1019	0	6	2.52	41.27
49-609626	RE49-10-4210	11/3/2009	1021	6	18	1.53	29.94
49-609627	RE49-10-4211	11/3/2009	1015	0	6	6.52	25.62
49-609627	RE49-10-4212	11/3/2009	1017	6	18	-1.44	16.75
49-609628	RE49-10-4213	11/3/2009	1028	0	6	4.73	24.94
49-609628	RE49-10-4214	11/3/2009	1030	6	18	8.94	23.93
49-609629	RE49-10-4215	11/3/2009	1024	0	6	7.31	26.51
49-609629	RE49-10-4216	11/3/2009	1026	6	18	0.52	27.09
49-609630	RE49-10-4217	11/3/2009	1000	0	6	22.68	26.65
49-609630	RE49-10-4218	11/3/2009	1002	6	18	12.09	18.89
49-609631	RE49-10-4219	11/3/2009	1040	0	6	5.61	29.39
49-609631	RE49-10-4220	11/3/2009	1042	6	18	11.74	23.34
49-609632	RE49-10-4221	11/3/2009	1037	0	6	10.00	20.51
49-609632	RE49-10-4222	11/3/2009	1039	6	18	9.12	24.38
49-609633	RE49-10-4223	11/3/2009	1048	0	6	2.47	19.51
49-609633	RE49-10-4224	11/3/2009	1050	6	18	0.71	26.39
49-609634	RE49-10-4225	11/3/2009	1053	0	6	21.40	15.92
49-609634	RE49-10-4226	11/3/2009	1055	6	18	8.68	31.39
49-609635	RE49-10-4227	11/3/2009	1102	0	6	6.15	29.01
49-609635	RE49-10-4228	11/3/2009	1104	6	18	12.21	26.86
49-609636	RE49-10-4229	11/3/2009	1108	0	6	4.51	24.72
49-609636	RE49-10-4230	11/3/2009	1110	6	18	3.66	27.77
49-609637	RE49-10-4231	11/3/2009	1128	0	6	1.84	31.45
49-609637	RE49-10-4232	11/3/2009	1130	6	18	7.34	24.65
49-609638	RE49-10-4233	11/3/2009	1133	0	6	12.58	28.54
49-609638	RE49-10-4234	11/3/2009	1135	6	18	2.25	33.94

Table D-10 (continued)

Location ID	Sample ID	Date	Time	Start Depth (in.)	End Depth (in.)	Gross Alpha (pCi/g)	Gross Beta (pCi/g)
49-609639	RE49-10-4235	11/3/2009	1137	0	6	13.98	31.35
49-609639	RE49-10-4236	11/3/2009	1139	6	18	8.40	29.66
49-609640	RE49-10-4237	11/3/2009	1143	0	6	3.39	23.11
49-609640	RE49-10-4238	11/3/2009	1145	6	18	7.77	25.21
49-609641	RE49-10-4239	11/3/2009	1121	0	6	9.93	21.77
49-609641	RE49-10-4240	11/3/2009	1123	6	18	9.49	23.80
49-609642	RE49-10-4241	11/3/2009	1113	0	6	-1.66	27.24
49-609642	RE49-10-4242	11/3/2009	1115	6	18	-0.30	30.95
49-609643	RE49-10-4243	11/3/2009	1107	0	6	8.34	21.49
49-609643	RE49-10-4244	11/3/2009	1109	6	18	9.23	23.43
49-609644	RE49-10-4245	11/3/2009	1334	0	6	10.42	34.58
49-609644	RE49-10-4246	11/3/2009	1339	6	18	10.81	22.78
49-609645	RE49-10-4247	11/3/2009	1340	0	6	10.72	27.68
49-609645	RE49-10-4248	11/3/2009	1343	6	18	2.20	30.20
49-609646	RE49-10-4249	11/3/2009	1347	0	6	8.27	31.19
49-609646	RE49-10-4250	11/3/2009	1349	6	18	5.68	35.70
49-609647	RE49-10-4251	11/3/2009	1351	0	6	3.84	31.28
49-609647	RE49-10-4252	11/3/2009	1354	6	18	4.87	28.27
49-609648	RE49-10-4253	11/3/2009	1355	0	6	6.41	31.75
49-609648	RE49-10-4254	11/3/2009	1357	6	18	13.04	27.20
49-609649	RE49-10-4255	11/3/2009	1355	0	6	9.46	25.96
49-609649	RE49-10-4256	11/3/2009	1357	6	18	8.68	28.91
49-609650	RE49-10-4257	11/3/2009	1402	0	6	10.53	28.32
49-609650	RE49-10-4258	11/3/2009	1405	6	18	11.13	29.46
49-609651	RE49-10-4259	11/3/2009	1402	0	6	3.87	33.68
49-609651	RE49-10-4260	11/3/2009	1405	6	18	6.06	27.66
49-609652	RE49-10-4261	11/3/2009	1412	0	6	4.61	22.74
49-609652	RE49-10-4262	11/3/2009	1415	6	18	3.45	23.63
49-609653	RE49-10-4263	11/3/2009	1418	0	6	11.52	24.17
49-609653	RE49-10-4264	11/3/2009	1421	6	18	11.59	24.73
49-609654	RE49-10-4265	11/3/2009	1419	0	6	1.97	20.14
49-609654	RE49-10-4266	11/3/2009	1421	6	18	8.30	17.47
49-609655	RE49-10-4267	11/3/2009	1428	0	6	6.66	19.14
49-609655	RE49-10-4268	11/3/2009	1430	6	18	0.52	29.12
49-609656	RE49-10-4269	11/3/2009	1433	0	6	12.36	29.68
49-609656	RE49-10-4270	11/3/2009	1436	6	18	12.62	21.00

BOREHOLE LOG

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

Borehole ID: 49-609882	TA: 49-004	Drill Depth: 0 to 65 ft bgs	Total Pages: 3
Driller: Matt Cain (WDC)		Start Time: 11/09/09	End Date: 11/09/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2090 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:bet a (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	2/4		0-0.5 ft bgs	0-2' Fill; ML Clay with sand, brown (7.5YR4/2), plastic, moist, semi-rounded with tuff pieces, poorly sorted	Fill	
1		α: 91	RE49-10-4930			
2		β: 2360		2-4' No recovery	NR	
3		PID: 0.0				
4	5/5			4-9' Fill, CH, brown (7.5YR4/2), very stiff, plastic, moist, poorly sorted, semi-rounded	Fill	
5		α: 104				
6		β: 2070				
7		PID: 0.5				
8						
9	5/5		9-14 ft bgs	9-13' Fill, ML, light brown (7.5YR6/4), medium stiff, non-plastic, dry, well graded, sub-rounded	Fill	
10		α: 72	RE49-10-4934			
11		β: 2320				
12		PID: 0.3				
13				13-14' Qbt4, white (7.5YR8/1), non-weathered, altered, non welded, 50-60% ashy matrix, 40-50% phenocrysts, <5% devitrified pumices	Qbt4	
14	5/5			14-19' Tuff; SAA		
15		α: 111				
16		β: 2470				
17		PID: 0.8				
18						
19	5/5			19-24' Tuff; SAA		
20		α: 85				
21		β: 2500				
22		PID: 0.8				
23						
24	5/5			24-29' Tuff; SAA		
25		α: 52				
26		β:				
27		PID: 0.0				
28						

BOREHOLE LOG

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

Borehole ID: 49-609882	TA: 49-004	Drill Depth: 0 to 65 ft bgs	Total Pages: 3
Driller: Matt Cain (WDC)		Start Time: 11/09/09	End Date: 11/09/09
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 104 dpm	β BV: 2090 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:bet a (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
29	5/5	α: 118 β: 2540 PID: 0.0		29-34' Tuff; SAA	Qbt4	
30						
31						
32						
33						
34	5/5	α: 131 β: 2290 PID: 0.0		34-39' Tuff; SAA	Qbt4	
35						
36						
37						
38						
39	5/5	α: 72 β: 2150 PID: 0.0		39-44' Tuff; SAA with increased welding	Qbt4	
40						
41						
42						
43						
44	5/5	α: 98 β: 2180 PID: 0.0		44-49' Tuff; SAA	Qbt4	
45						
46						
47						
48						
49	5/5	α: 65 β: 2440 PID: 0.0		52-54' Qbt4, brown (7.5YR4/4), altered, soft, 40-50% ashy matrix, 40-50% phenocrysts, <5% devitrified pumices	Qbt4	
50						
51						
52						
53						
54	5/5	α: 98 β: 2430 PID: 0.0		54-59' Tuff; SAA	Qbt4	
55						
56						
57						
58						

BOREHOLE LOG

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

Borehole ID: 49-609882		TA: 49-004		Drill Depth: 0 to 65 ft bgs		Total Pages: 3	
Driller: Matt Cain (WDC)				Start Time: 11/09/09		End Date: 11/09/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 104 dpm		β BV: 2090 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: α : (dpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES	
59 60 61 62 63 64	5/5	α : 59 β : 2970 PID: 0.0	63-65 ft bgs RE49-10-4941 RE49-10-4947	59-64' Tuff; SAA	Qbt4	TOTAL DEPTH: 65 ft bgs	

BOREHOLE LOG

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

Borehole ID: 49-609883 TA: 49-004 Drill Depth: 0 to 65 ft bgs Total Pages: 3

Driller: Matt Cain (WDC) Start Time: 11/05/09 End Date: 11/06/09

Drilling Equipment/Method: CME 85 Hollow-Stem Auger α BV: 104 dpm β BV: 2090 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 (cpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.2/4			0-6 inches Fill with charcoal, glass and metal debris	SOIL	
1		α: 104		6-in -3.2' Silt with sand, tuff, dry, reddish yellow (7.5YR7/6), dense, non-plastic		
2		β: 2220		3.2-4' No recovery		
3					NR	
4	0/5					
5						
6				4-9' No recovery		
7						
8					Qbt4	
9	5/5		9-14 ft bgs			
10		α: 104	RE49-10-4940	9-14' ML, clayey fine sand, brown (7.5YR5/3), loose, moist, some tuff with quartz; Tuff; light gray (7.5YR8/1), weathered, soft, ashy matrix with 5-10% lithics with quartz, devitrified pumice		
11		β: 2290				
12		PID: 1.4				
13					NR	
14	2.4/5			14-16.4' Tuff; SAA		
15		α: 98				
16		β: 2500		16.4-19' No recovery		
17		PID: 1.2				
18					Qbt4	
19	5/5					
20		α: 118		19-24' Tuff; SAA with 5% pumice, devitrified		
21		β: 2440				
22		PID: 0.9				
23					Qbt4	
24	5/5					
25		α: 91		24-29' Tuff, light gray (7.5YR8/1), non-weathered, very stiff to hard, ashy matrix with 10-15% small devitrified pumice, 25% quartz, 5-10% lithics		
26		β: 2540				
27		PID: 0.6				
28						

BOREHOLE LOG						
Technical Area 49 (TA-49) Investigation Outside NES Boundary						
Borehole ID: 49-609883 TA: 49-004		Drill Depth: 0 to 65 ft bgs			Total Pages: 3	
Driller: Matt Cain (WDC) Start Time: 11/05/09				End Date: 11/06/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 104 dpm	β BV: 2090 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
29 30 31 32 33	5/5	α : 32 β : 2510 PID: 0.0		29-34' Tuff, light gray (7.5YR8/1), non-weathered, very stiff to hard, 25% ash matrix, 10-15% pumice, large pumices with rust rind, devitrified, 25% quartz, 40% lithics	Qbt4	
34 35 36 37 38	5/5	α : 78 β : 2640 PID: 0.0		34-39' Tuff; SAA with vertical fracture in bottom 1-in, weathered tuff clay, presence of sanadine		Vertical fracture in lower 1 inch of core
39 40 41 42 43	5/5	α : 59 β : 2010 PID: 0.0		39-44' Tuff; SAA with increasing pumice size		Vertical fracture in lower 6 inches of core
44 45 46 47 48	5/5	α : 52 β : 2010 PID: 0.0		44-49' Tuff; SAA with gradually decreasing pumice size and quantity		
49 50 51 52 53	5/5	α : 72 β : 2480 PID: 0.0		49-54' Tuff; light gray (7.5YR8/1), lightly welded tuff with large to very large devitrified/weathered pumices. Bottom 1-ft with no pumice, 50% ashy matrix, 25% lithics, 25% quartz		
54 55 56 57 58	5/5	α : 85 β : 2220 PID: 0.0		54-59' Tuff; SAA with increasing weathered pumices		

BOREHOLE LOG						
Technical Area 49 (TA-49) Investigation Outside NES Boundary						
Borehole ID: 49-609883 TA: 49-004		Drill Depth: 0 to 65 ft bgs			Total Pages: 3	
Driller: Matt Cain (WDC) Start Time: 11/05/09			End Date: 11/06/09			
Drilling Equipment/Method: CME 85 Hollow-Stem Auger			α BV: 104 dpm	β BV: 2090 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
59 60 61 62 63 64	5/5	α: 65 β: 2340	62-64 ft bgs RE49-10-4937	59-64' Tuff; SAA with increasing pumices and sanadines		
					TOTAL DEPTH: 65 ft bgs	

BOREHOLE LOG						
Technical Area 49 (TA-49) Investigation Outside NES Boundary						
Borehole ID: 49-609884 TA: 49-004		Drill Depth: 0 to 65 ft bgs Total Pages: 3				
Driller: Matt Cain (WDC) Start Time: 11/06/09			End Date: 11/06/09			
Drilling Equipment/Method: CME 85 Hollow-Stem Auger			α BV: 104 dpm		β BV: 2090 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 (cpm)/PID (ppm)	SAMPLE ID	LITHOLOGICAL DESCRIPTION	LITHOLOGICAL UNIT	NOTES
0	3.4/5	α: 91	0-1 ft bgs	0-1' Fill		
1		β: 2200	RE49-10-4936	1-3.4' ML with silt and sand, pinkish gray (7.5YR6/2), loose, non-plastic, dry, sub-rounded with crushed tuff and charcoal	SOIL	
2		PID: 0.0				
3						
4				3.4-5' No recovery	NR	
5	5/5	α: 52		5-7' Soil; SAA	SOIL	
6		β: 1882				
7		PID: 0.0	7.0-9 ft bgs			
8			RE49-10-4932	7-10' Qbt4, white (7.5YR8/1), weathered, medium stiff; <5% devitrified pumices, 50-60% ashy matrix, 20-30% phenocrysts		
9						
10	5/5	α: 91				
11		β: 1958				
12		PID: 0.0		10-15' Tuff; SAA		
13						
14						
15	5/5	α: 45				
16		β: 2130				
17		PID: 0.0		15-20' Tuff; SAA with increasing devitrified pumices		
18						
19						
20	5/5	α: 52				
21		β: 2220				
22		PID: 0.0		20-25' Tuff; SAA		
23						
24						
25	5/5	α: 45				
26		β: 2190				
27		PID: 0.0		25-30' Qbt4; white (7.5YR8/1), non-weathered, moderately welded, 40-50% ashy matrix, 30-40% phenocrysts, 5-10% devitrified pumices		
28						
29						

BOREHOLE LOG						
Technical Area 49 (TA-49) Investigation Outside NES Boundary						
Borehole ID: 49-609884 TA: 49-004		Drill Depth: 0 to 65 ft bgs Total Pages: 3				
Driller: Matt Cain (WDC) Start Time: 11/06/09			End Date: 11/06/09			
Drilling Equipment/Method: CME 85 Hollow-Stem Auger			α BV: 104 dpm		β BV: 2090 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	α: 59		30-35' Tuff; SAA	Qbt4	
31		β: 2220				
32		PID: 0.0				
33						
34						
35	5/5	α: 91		35-40' Tuff; SAA	Qbt4	
36		β: 2360				
37		PID: 0.0				
38						
39						
40	5/5	α: 91		40-45' Tuff; SAA	Qbt4	
41		β: 2290				
42		PID: 0.0				
43						
44						
45	5/5	α: 52		45-50' Tuff; SAA	Qbt4	
46		β: 2530				
47		PID: 0.0				
48						
49						
50	4.3/5	α: 65		50-54.3' Tuff; SAA	Qbt4	
51		β: 2320				
52		PID: 0.0				
53						
54			54.3-55' No recovery			
55	5/5	α: 72		55-60' Qbt4; white (7.5YR8/1), non-weathered, moderately welded, 50% ashy matrix, 40-50% phenocrysts, <5% large devitrified pumices	Qbt4	
56		β: 2250				
57		PID: 0.0				
58						
59						

BOREHOLE LOG							
Technical Area 49 (TA-49) Investigation Outside NES Boundary							
Borehole ID: 49-609884		TA: 49-004		Drill Depth: 0 to 65 ft bgs		Total Pages: 3	
Driller: Matt Cain (WDC)				Start Time: 11/06/09		End Date: 11/06/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 104 dpm		β BV: 2090 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	α : 72		60-65" Tuff; SAA	Qbt4		
61		β : 3030					
62		PID: 0.0					
63			63-65 ft bgs				
64			RE49-10-4933				
65						TOTAL DEPTH: 65 ft bgs	

BOREHOLE LOG

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

Borehole ID: 49-609885	TA: 49-004	Drill Depth: 0 to 65 ft bgs	Total Pages: 3
Driller: Matt Cain (WDC)	Start Date: 11/09/09	End Date: 11/09/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 91 dpm	β BV: 2520 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	3.5/4	α: 78	0-0.5ft bgs	0-1' Fill		
1		β: 2250	RE49-10-4942	1-3.5' ML, brown (7.5YR4/4), loose non-plastic, dry, well graded, rounded	SOIL	
2		PID: 0.0		3.5-4; No recovery		
3						
4	2.8/5	α: 85		4-6.8' Tuff, pinkish white (7.5YR8/2), weathered, non-welded gravely		
5		β: 2120				
6		PID: 0.0				
7				6.8-9' No recovery	NR	
8						
9	5/5	α: 59	9-14 ft bgs	9-14' Qbt4 tuff, brown (7.5YR5/4), weathered, soft, loose, clayey; Qbt4, white (7.5YR8/1), weathered, welded, 50% ashy matrix, <5% devitrified pumices, 40% phenocrysts		
10		β: 2970	RE49-10-4939			
11		PID: 0.0				
12						
13						
14	5/5	α: 65		14-19' Tuff; SAA	Qbt4	
15		β: 2030				
16		PID: 0.0				
17						
18						
19	5/5	α: 104		19-24' Qbt4; Light grey (7.5YR7/1), non-weathered moderately welded, 50% ashy matrix, 5-10% pumices, 30-40% phenocrysts		
20		β: 2250				
21		PID: 0.0				
22						
23						
24	5/5	α: 98		24-29' Tuff; SAA		
25		β: 2150				
26		PID: 0.0				
27						
28						

BOREHOLE LOG

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

Borehole ID: 49-609885	TA: 49-004	Drill Depth: 0 to 65 ft bgs	Total Pages: 3
Driller: Matt Cain (WDC)	Start Date: 11/09/09	End Date: 11/09/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger		α BV: 91 dpm	β BV: 2520 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
29	5/5				Qbt4	
30		α: 78				
31		β: 2180		29-34' Tuff; SAA		
32		PID: 0.0				
33						
34	5/5				Qbt4	
35		α: 104				
36		β: 2340		34-39' Tuff; SAA with increase in sanadines		
37		PID: 0.0				
38						
39	5/5				Qbt4	
40		α: 45				
41		β: 2340		39-44' Tuff; SAA		
42		PID: 0.0				
43						
44	5/5				Qbt4	
45		α: 52				
46		β: 2210		44-49' Tuff; SAA		
47		PID: 0.0				
48						
49	3.75/5			49-52.75' Qbt4; white (7.5YR8/1), altered, lightly welded, 50-60% ashy matrix, 30-40% phenocrysts, <5% devitrified pumices	NR	
50		α: 78				
51		β: 2150				
52		PID: 0.0		52.75-54' No recovery		
53						
54	3.2/5				Qbt4	
55		α: 98		54-57.2' Tuff; SAA		
56		β: 2430				
57		PID: 0.0				
58				57.2-59' No recovery		

BOREHOLE LOG							
Technical Area 49 (TA-49) Investigation Outside NES Boundary							
Borehole ID: 49-609885		TA: 49-004		Drill Depth: 0 to 65 ft bgs Total Pages: 3			
Driller: Matt Cain (WDC)			Start Date: 11/09/09		End Date: 11/09/09		
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 91 dpm		β BV: 2520 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	
59	5/5						
60		α: 59					
61		β: 2970					
62		PID: 0.0		59-65' Tuff; SAA	Qbf4		
63			63-65 ft bgs				
64			RE49-10-4938				TOTAL DEPTH: 65 ft bgs

BOREHOLE LOG						
Technical Area 49 (TA-49) Investigation Outside NES Boundary						
Borehole ID: 49-609986 TA: 49-005 (a)		Drill Depth: 0 to 10 ft bgs		Total Pages: 1		
Driller: Matt Cain (WDC)			Start Date: 11/10/09		End Date: 11/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 68 dpm	β BV: 2790 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	5/5	α: 91 β: 2170 PID: 0.0	0-0.5 ft bgs	0-0.5' CL sandy, dark brown (7.5YR3/2), loose, non-plastic, moist, poorly sorted, tuffs	Qbt4	
1			RE49-10-5404			
2			4-5 ft bgs	0.5-5.0' Weathered tuff, granular, light brown (7.5YR6/3), loose, non-plastic		
3			RE49-10-5401			
4	5/5	α: 91 β: 2440 PID: 0.7	9-10 ft bgs	5-10' Tuff; white (7.5YR8/1), moderately weathered, moderately welded, fractured from 6.7'-7.95' with clay and weathered tuff in fill, 5-10% devitrified pumices, 60% ashy matrix, 20% lithics, 10% quartz	Qbt4	
5			RE49-10-5402			
6						
7						
8						
9						
10	TOTAL DEPTH: 10 FT BGS					

BOREHOLE LOG

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

Borehole ID: 49-609987		TA: 49-005 (a)	Drill Depth: 0 to 10 ft bgs		Total Pages: 1	
Driller: Matt Cain (WDC)			Start Date: 11/10/09		End Date: 11/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 68 dpm	β BV: 2790 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	3.3/5	α : 65	0-2 ft bgs	0-2' ML with silt, reddish brown (7.5YR5/3), medium dense, non plastic, dry, well sorted	SOIL	
1		β : 2160	RE49-10-5409			
2		PID: 0.0	3-5 ft bgs	2-5' Weathered tuff, granular, pink (7.5YR7/3), loose, non-plastic, dry		
3						
4			RE49-10-5406			
5	5/5	α : 78	5-6.5 ft bgs	5-10' Tuff, white (7.5YR8/1), slightly weathered, moderately welded, 50% ashy matrix, 20% lithics, 20% quartz, ~5% pumice (devitrified)	Qbr4	
6		β : 2390	RE49-10-5413			
7		PID: 0.0	6.5-8 ft bgs			
8			RE49-10-5411			
9			8-10 ft bgs			
10						
					TOTAL DEPTH 10 FT BGS	

BOREHOLE LOG

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

Borehole ID: 49-609988		TA: 49-005 (a)		Drill Depth: 0 to 10 ft bgs		Total Pages: 1	
Driller: Matt Cain (WDC)				Start Date: 11/10/09		End Date: 11/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 68 dpm		β BV: 2790 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	5/5	α: 65	0-1 ft bgs	0-1' SM clayey sand, reddish brown (7.5YR4/3), loose, moderately plastic, subrounded	Qbr4		
1		β: 2150	RE49-10-5403				
2		PID: 0.0		1-5' Tuff, weathered, pinkish white (7.5YR8/2), loose, non-plastic, gravely, tuff light gray (7.5YR7/1), highly weathered, stiff, ashy matrix with 20% lithics, 20% quartz			
3							
4			RE49-10-5407				
5	5/5	α: 98					
6		β: 2390					
7		PID: 0.6					
8							
9				8-10 ft bgs		5-10' Tuff; white (7.5YR8/1), weathered, moderately welded, 50% ashy matrix, 10-15% pumice, devitrified, 20% lithics, 10-15% quartz	
10				RE49-10-5408			
						TOTAL DEPTH: 10 FT BGS	

BOREHOLE LOG

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

Borehole ID: 49-609989 TA: 49-005 (a)		Drill Depth: 0 to 10 ft bgs		Total Pages: 1		
Driller: Matt Cain (WDC)			Start Date: 11/10/09		End Date: 11/10/09	
Drilling Equipment/Method: CME 85 Hollow-Stem Auger				α BV: 68 dpm	β BV: 2790 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	3/4	α : 78	0-0.6 ft bgs		SOIL	
1		β : 2290	RE49-10-5414	0-5' ML with sand, dark brown (7.5YR3/4), loose, lightly plastic, moist, poorly graded, highly weathered tuff		
2		PID: 0.0				
3			3-4 ft bgs			
4			RE49-10-5410			
5	5/5	α : 85		5-9' Light brown (7.5YR6/3), very weathered, medium stiff, 60% ashy matrix, 20% lithics, 10% quartz	Qbt4	
6		β : 1841				
7			9-10 ft bgs			
8			RE49-10-5412	9-10' Tuff, white (7.5YR8/1), non-weathered, welded, 50% ashy matrix, 5% pumice, 15% lithics, 25% quartz		
9						
10						TOTAL DEPTH 10 FT BGS