

**NOTE:
SUPPLEMENTAL
STANDARDS**

**DEPARTMENT OF ENERGY
ALBUQUERQUE OPERATIONS OFFICE
CONTRACT NO. DE-AC04-83AL18796**

Vicinity Property Completion Report

**Remedial Actions
Contractor
for the
Uranium Mill Tailings
Remedial Actions
Project**



MK-FERGUSON COMPANY
A MORRISON KNUDSEN COMPANY

Vicinity Property No. RF-493S

9611070079 961028
PDR WASTE
WM-62 PDR

VICINITY PROPERTY COMPLETION REPORT

AT

RF-493S
NORTH OF HIGHWAY 6 & 24
EAST OF ASH AVENUE
RIFLE, COLORADO

SEPTEMBER 12, 1996

FOR

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT OFFICE
ALBUQUERQUE OPERATIONS OFFICE
U.S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NM

BY

MK-FERGUSON COMPANY

AND

RUST FEDERAL SERVICES, INC.

MK-Ferguson Company has been granted authorization to perform remedial action under the Uranium Mill Tailings Radiation Control Act of 1978, Public Law 95-604. Remedial action was done in accordance to the EPA Standards for Cleanup of Lands and Buildings Contaminated with Residual Radioactive Material from Inactive Uranium Processing Sites, 40 CFR 192.12, 192.20-2

TABLE OF CONTENTS

Section

- 1.0 SUMMARY
- 2.0 OPERATION SUMMARY
 - 2.1 Remedial Action Plan
 - 2.2 Previously Unidentified Contamination
 - 2.3 Unanticipated Items During Remedial Action
- 3.0 VERIFICATION SUMMARY
 - 3.1 Radiological Survey Data
 - 3.1.1 Pre-Remedial Action Survey
 - 3.1.2 Pre-Restoration Survey
 - 3.2 Recommendation for Certification
 - 3.2.1 Exterior
 - 3.2.2 Interior
- 4.0 REFERENCES

APPENDIX A - Radiological Survey Data
APPENDIX B - Supplemental Standards Documentation
APPENDIX C - Legal Description

LIST OF FIGURES

Figure

Property Photos
Radiological Survey Data (RF-493-015 and 016)
Property Site Plan (RF-493-020)
Certification Radiological Plan (RF-493-030 thru 038)

LIST OF TABLES

Table

- 3.1 Verification Soil Sample Survey

1.0 SUMMARY

PROPERTY NUMBER:	RF-493S
PROPERTY ADDRESS:	NORTH OF HIGHWAY 6 & 24 EAST OF ASH AVENUE RIFLE, COLORADO
PROPERTY OWNER:	CITY OF RIFLE 202 RAILROAD AVE. RIFLE, COLORADO 81650
PROPERTY CATEGORY:	OPEN LAND
REMEDIAL ACTION CONTRACTOR:	MK-FERGUSON COMPANY
CONSTRUCTION SUBCONTRACTOR:	PALISADE CONSTRUCTORS, INC.
RADIOLOGICAL CONTRACTOR:	RUST FEDERAL SERVICES, INC.
REA APPROVED:	APRIL 14, 1993
REMEDIAL ACTION STARTED:	AUGUST 31, 1993
REMEDIAL ACTION COMPLETED:	MAY 20, 1994
APPENDIX C SIGNED	
VOLUME OF MATERIAL REMOVED:	OUTDOOR: 47,158 cy INDOOR: N/A cy

1.0 SUMMARY

Remedial action was completed on Vicinity Property RF-493S. A total of 47,158 cubic yards of soil was removed from the property. Radiological surveys conducted following removal of contaminated material, but before property restoration, demonstrate that the property has been cleaned up to the EPA standards with the application of Supplemental Standards. This completion report recommends that DOE review the radiological data provided for the property and award final certification.

2.0 OPERATIONS SUMMARY

2.1 Remedial Action Plan

The basic remedial action on this property was performed according to the Remedial Action Plan. A total of 47,158 cubic yards of soil was removed from the property, compared with an estimated excavation of 33,893 cubic yards of soil.

2.2 Previously Unidentified Contamination

No new areas of contamination were identified during remedial action.

2.3 Unanticipated Items During Remedial Action

Two concrete basins were uncovered during remediation in Area "K". The basins are concrete cylinders having a diameter of thirty feet and a depth of ten feet. The basins did contain contaminated soil and were completely remediated.

3.0 VERIFICATION SUMMARY

3.1 Radiological Survey Data

All survey data were acquired according to approved procedures.

3.1.1 Pre-Remedial Action Survey

The results of the survey defining the contaminated area requiring remedial action are presented on Drawings RF-493-015 and 016.

3.1.2 Pre-Restoration Survey

Exterior:

After removal of contamination, and prior to backfilling, a soil sample survey was conducted in the excavated areas. Soil samples were aliquoted from the 1545 verification grids and analyzed by gamma spectroscopy with the opposed crystal system in accordance with Health Physics Procedure 015. The radium concentration in these soil samples ranged from 0.2 to 12.3 pCi/g, as summarized in Table 3.1.

Drawing RF-493S-020 shows the actual areas of excavation.

These results confirm that exterior contamination has been reduced to levels below the EPA standards for radium in soil. Background for the Rifle locale is 1.6 pCi/g Ra-226. The data presented includes background.

Interior:

There are no structures on this property.

3.2 Recommendation for Certification

3.2.1 Exterior:

Seven areas of contamination were identified and removed. Soil samples after excavation and prior to backfilling indicate that the limits of 5 pCi/g in the surface 15 cm. and 15 pCi/g in any 15 cm. layer below the surface are not exceeded. Based on this information, we recommend the exterior of this vicinity property be certified to be in compliance with EPA standards, with the application of Supplemental Standards, for the UMTRA Project.

3.2.2 Interior:

There are no structures on this property.

4.0 REFERENCES

- 4.1 Results of the Radiological Survey of Property RF-493; Mk-Ferguson Company/Rust Federal Services, Inc.; Albuquerque, New Mexico; July 1992.
- 4.2 The Radiological and Engineering Assessment for Rifle, Property RF-493; MK-Ferguson Company/Rust Federal Services, Inc.; Albuquerque, New Mexico; April 14, 1993.
- 4.3 Health Physics Procedures; Rust Federal Services, Inc., for MK-Ferguson Company, Remedial Action Contractor; Albuquerque, New Mexico; October 1993.
- 4.4 Vicinity Properties Management and Implementation Manual; UMTRAP, U.S. Department of Energy; Albuquerque, New Mexico; August 1986.
- 4.5 Title 40, Code of Federal Regulations, Part 192.12-23; U.S. Environmental Protection Agency; Washington, D.C.; July 1983.

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 1	4800	15-30	1.2
A 2	4542	15-30	1.7
A 3	4543	15-30	1.3
A 4	4544	15-30	1.9
A 5	4545	15-30	1.1
A 6	4546	15-30	1.3
A 7	4388	15-30	2.0
A 8	4332	15-30	2.9
A 9	4333	15-30	2.8
A 10	4334	15-30	1.5
A 11	4335	15-30	1.2
A 12	4282	15-30	1.8
A 13	4281	15-30	2.1
A 14	4283	15-30	1.6
A 15	4253	15-30	1.2
A 16	4254	15-30	1.9
A 17	4255	15-30	1.0
A 18	4256	15-30	1.7
A 19	4278	15-30	1.8
A 20	4177	15-30	2.6
A 21	4179	15-30	1.1
A 22	4181	15-30	1.2
A 23	4180	15-30	0.8
A 24	4178	15-30	1.4

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 25	3927	15-30	1.3
A 26	3928	15-30	0.8
A 27	3929	15-30	2.0
A 28	3930	15-30	1.5
A 29	3931	15-30	0.7
A 30	3932	15-30	1.4
A 31	3933	15-30	2.1
A 32	4257	15-30	1.7
A 33	4258	15-30	1.8
A 34	3934	15-30	1.0
A 35	3723	15-30	1.3
A 36	3568	15-30	1.8
A 37	3569	15-30	2.2
A 38	3549	15-30	3.5
A 39	3550	15-30	2.6
A 40	3551	15-30	2.0
A 41	3552	15-30	1.6
A 42	3479	15-30	2.8
A 43	3480	15-30	2.4
A 44	3481	15-30	2.8
A 45	3482	15-30	3.3
A 46	3483	15-30	2.3
A 47	3607	15-30	2.8
A 48	3608	15-30	2.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 49	3609	15-30	1.3
A 50	3610	15-30	1.9
A 51	3611	15-30	2.5
A 52	3612	15-30	2.1
A 53	4653	15-30	1.8
A 54	4654	15-30	0.9
A 55	4801	15-30	1.0
A 56	4802	15-30	1.1
A 57	4547	15-30	2.6
A 58	4548	15-30	3.3
A 59	4809	15-30	1.5
A 60	4810	15-30	1.5
A 61	4549	15-30	2.2
A 62	4389	15-30	1.5
A 63	4336	15-30	4.2
A 64	4337	15-30	1.6
A 65	4338	15-30	1.4
A 66	4339	15-30	1.5
A 67	4284	15-30	1.5
A 68	4285	15-30	1.3
A 69	4286	15-30	1.1
A 70	4259	15-30	1.1
A 71	4260	15-30	1.8
A 72	4261	15-30	1.0

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 73	4262	15-30	1.6
A 74	4263	15-30	1.3
A 75	4182	15-30	2.4
A 76	3935	15-30	0.96
A 77	3936	15-30	1.2
A 78	3937	15-30	1.0
A 79	3938	15-30	1.7
A 80	3939	15-30	0.8
A 81	3940	15-30	1.7
A 82	3941	15-30	1.2
A 83	3942	15-30	0.6
A 84	3943	15-30	1.3
A 85	3944	15-30	1.3
A 86	3945	15-30	1.9
A 87	4264	15-30	3.7
A 88	4265	15-30	3.0
A 89	3946	15-30	1.1
A 90	3724	15-30	1.4
A 91	3571	15-30	2.6
A 92	3570	15-30	1.9
A 93	3553	15-30	2.0
A 94	3554	15-30	1.9
A 95	3555	15-30	2.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 96	3556	15-30	1.8
A 97	3474	15-30	3.8
A 98	3475	15-30	3.6
A 99	3476	15-30	2.9
A 100	3477	15-30	2.4
A 101	3478	15-30	3.0
A 102	3613	15-30	2.8
A 103	3614	15-30	1.3
A 104	3615	15-30	1.0
A 105	3616	15-30	1.0
A 106	3617	15-30	1.6
A 107	3618	15-30	1.8
A 108	4655	15-30	1.9
A 109	4656	15-30	1.4
A 110	4550	15-30	1.5
A 111	4551	15-30	2.1
A 112	4552	15-30	3.3
A 113	4553	15-30	4.5
A 114	4811	15-30	1.9
A 115	4822	15-30	0.9
A 116	4554	15-30	1.9
A 117	4390	15-30	2.4
A 118	4340	15-30	2.6
A 119	4341	15-30	1.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 120	4342	15-30	0.9
A 121	4343	15-30	1.4
A 122	4287	15-30	1.5
A 123	4288	15-30	1.6
A 124	4290	15-30	2.0
A 125	4289	15-30	1.3
A 126	4266	15-30	0.9
A 127	4267	15-30	1.4
A 128	4268	15-30	1.6
A 129	4269	15-30	1.8
A 130	4185	15-30	1.3
A 131	3947	15-30	1.1
A 132	3948	15-30	1.3
A 133	3949	15-30	1.5
A 134	3950	15-30	1.1
A 135	3951	15-30	1.3
A 136	3952	15-30	2.6
A 137	3953	15-30	1.0
A 138	3954	15-30	1.2
A 139	3955	15-30	1.1
A 140	3956	15-30	1.4
A 141	4270	15-30	1.9
A 142	4271	15-30	1.7
A 143	4272	15-30	1.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (c:n)	RA-226 CONC. (pCi/g)
A 144	4183	15-30	2.0
A 145	4184	15-30	2.4
A 146	3572	15-30	3.0
A 147	3573	15-30	1.9
A 148	3557	15-30	3.1
A 149	3558	15-30	2.4
A 150	3560	15-30	2.5
A 151	3561	15-30	1.6
A 152	3470	15-30	3.1
A 153	3471	15-30	3.1
A 154	3574	15-30	1.5
A 155	3575	15-30	1.3
A 156	3576	15-30	2.0
A 157	3619	15-30	1.6
A 158	3620	15-30	2.2
A 159	3621	15-30	1.6
A 160	3632	15-30	1.9
A 161	3622	15-30	1.7
A 162	3623	15-30	3.1
A 163	4657	15-30	1.5
A 164	4658	15-30	0.8
A 165	4555	15-30	1.7
A 166	4556	15-30	1.2
A 167	4557	15-30	3.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 168	4558	15-30	3.4
A 169	4803	15-30	1.1
A 170	4804	15-30	0.6
A 171	4559	15-30	1.7
A 172	4391	15-30	3.1
A 173	4344	15-30	1.6
A 174	4345	15-30	4.1
A 175	4346	15-30	1.3
A 176	4347	15-30	1.5
A 177	4348	15-30	1.8
A 178	4291	15-30	1.5
A 179	4292	15-30	1.6
A 180	4293	15-30	1.3
A 181	4294	15-30	1.9
A 182	4295	15-30	1.2
A 183	4296	15-30	1.5
A 184	4297	15-30	1.8
A 185	4186	15-30	1.8
A 186	3957	15-30	1.5
A 187	3958	15-30	1.7
A 188	3959	15-30	1.6
A 189	3960	15-30	1.2
A 190	4188	15-30	2.1
A 191	4189	15-30	2.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 192	4190	15-30	1.7
A 193	4191	15-30	1.0
A 194	4192	15-30	1.1
A 195	4273	15-30	2.3
A 196	4274	15-30	2.0
A 197	4275	15-30	2.2
A 198	4187	15-30	1.0
A 199	4193	15-30	2.0
A 200	3725	15-30	4.5
A 201	3577	15-30	4.6
A 202	3578	15-30	2.0
A 203	3562	15-30	3.1
A 204	3563	15-30	3.0
A 205	3535	15-30	2.3
A 206	3536	15-30	2.1
A 207	3472	15-30	2.9
A 208	3473	15-30	3.6
A 209	3579	15-30	1.1
A 210	3580	15-30	1.2
A 211	3581	15-30	1.3
A 212	3624	15-30	1.9
A 213	3625	15-30	1.8
A 214	3626	15-30	2.6
A 215	3627	15-30	2.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 216	3628	15-30	3.1
A 217	3629	15-30	3.3
A 218	4659	15-30	1.2
A 219	4660	15-30	1.6
A 220	4560	15-30	2.1
A 221	4561	15-30	2.7
A 222	4562	15-30	3.0
A 223	4805	15-30	1.3
A 224	4806	15-30	0.7
A 225	4563	15-30	1.3
A 226	4349	15-30	3.7
A 227	4350	15-30	1.6
A 228	4351	15-30	1.6
A 229	4352	15-30	1.2
A 230	4567	15-30	1.6
A 231	4568	15-30	1.2
A 232	4396	15-30	1.4
A 233	4397	15-30	1.6
A 234	4194	15-30	2.6
A 235	4299	15-30	1.5
A 236	4300	15-30	1.5
A 237	4301	15-30	1.8
A 238	4302	15-30	1.8
A 239	4195	15-30	2.0

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 240	3961	15-30	0.8
A 241	3962	15-30	1.5
A 242	3963	15-30	0.9
A 243	3964	15-30	1.3
A 245	4196	15-30	1.1
A 246	4197	15-30	2.7
A 247	4198	15-30	1.4
A 248	4199	15-30	1.3
A 249	4200	15-30	1.0
A 250	4277	15-30	1.3
A 251	4276	15-30	3.3
A 252	4201	15-30	1.0
A 253	4202	15-30	1.5
A 254	4298	15-30	1.2
A 255	3726	15-30	2.3
A 256	3582	15-30	5.5
A 257	3583	15-30	2.9
A 258	3564	15-30	2.9
A 259	3565	15-30	3.2
A 260	3537	15-30	1.6
A 261	3533	15-30	2.4
A 262	3485	15-30	2.9
A 263	3484	15-30	4.0
A 264	3584	15-30	2.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
A 265	3585	15-30	2.2
A 266	3586	15-30	2.6
A 267	3630	15-30	2.7
A 268	3631	15-30	2.8
A 269	3633	15-30	2.3
A 270	3634	15-30	3.2
A 271	3635	15-30	3.1
A 272	3636	15-30	4.0
B 1	4661	15-30	3.0
B 2	4662	15-30	1.0
B 3	4564	15-30	3.9
B 4	4565	15-30	1.3
B 5	4808	15-30	1.9
B 6	4807	15-30	0.9
B 7	4566	15-30	3.1
B 8	4353	15-30	1.5
B 9	4354	15-30	1.5
B 10	4355	15-30	2.1
B 11	4356	15-30	1.0
B 12	4569	15-30	1.6
B 13	4570	15-30	2.0
B 14	4571	15-30	1.3
B 15	4398	15-30	1.2
B 16	4303	15-30	2.0

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 17	4304	15-30	2.7
B 18	4305	15-30	0.7
B 19	4306	15-30	1.4
B 20	4307	15-30	2.6
B 21	4203	15-30	1.1
B 22	4204	15-30	1.4
B 23	4205	15-30	1.1
B 24	4206	15-30	1.4
B 25	4207	15-30	1.7
B 26	4208	15-30	1.8
B 27	4209	15-30	1.8
B 28	4210	15-30	0.8
B 29	4308	15-30	1.2
B 30	4309	15-30	3.2
B 31	4211	15-30	1.8
B 32	4051	15-30	2.3
B 33	4052	15-30	1.8
B 34	4054	15-30	1.8
B 35	3727	15-30	2.6
B 36	3728	15-30	2.5
B 37	3587	15-30	1.8
B 38	3588	15-30	1.6
B 39	3566	15-30	3.7
B 40	3567	15-30	2.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 41	3539	15-30	1.7
B 42	3540	15-30	2.5
B 43	3486	15-30	3.2
B 44	3487	15-30	3.2
B 45	3488	15-30	3.7
B 46	3589	15-30	2.8
B 47	3590	15-30	2.2
B 48	3489	15-30	3.0
B 49	3490	15-30	1.8
B 50	3637	15-30	2.4
B 51	3638	15-30	3.2
B 52	3639	15-30	3.2
B 53	3640	15-30	2.1
B 56	4634	15-30	1.8
B 57	4635	15-30	1.2
B 58	4636	15-30	1.6
B 59	4357	15-30	2.5
B 60	4358	15-30	1.1
B 61	4359	15-30	0.9
B 62	4360	15-30	1.0
B 63	4572	15-30	2.2
B 64	4573	15-30	1.8
B 65	4574	15-30	0.6
B 66	4575	15-30	0.9

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 67	4399	15-30	1.1
B 68	4310	15-30	1.2
B 69	4311	15-30	1.7
B 70	4312	15-30	1.2
B 71	4313	15-30	2.3
B 72	4314	15-30	1.2
B 73	4212	15-30	0.9
B 74	4213	15-30	1.3
B 75	4214	15-30	1.0
B 76	4215	15-30	1.1
B 77	4216	15-30	1.4
B 78	4217	15-30	1.6
B 79	4218	15-30	1.3
B 80	4315	15-30	2.6
B 81	4316	15-30	2.0
B 82	4317	15-30	1.6
B 83	4053	15-30	1.8
B 84	4055	15-30	1.7
B 85	3803	15-30	3.3
B 86	3729	15-30	2.5
B 87	3730	15-30	2.7
B 88	3731	15-30	1.3
B 89	3591	15-30	2.3
B 90	3592	15-30	1.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 91	3593	15-30	2.2
B 92	3594	15-30	1.9
B 93	3541	15-30	2.1
B 94	3542	15-30	2.3
B 95	3492	15-30	2.7
B 96	3493	15-30	2.7
B 97	3493	15-30	2.9
B 98	3494	15-30	2.8
B 99	3495	15-30	2.9
B 100	3496	15-30	2.8
B 101	3497	15-30	3.8
B 102	3498	15-30	2.0
B 103	3499	15-30	3.4
B 104	3500	15-30	2.4
B 105	3501	15-30	1.9
B 107	4637	15-30	1.5
B 108	4638	15-30	1.2
B 109	4639	15-30	4.1
B 110	4361	15-30	1.4
B 111	4362	15-30	1.2
B 112	4363	15-30	1.9
B 113	4576	15-30	0.8
B 114	4577	15-30	1.8
B 115	4578	15-30	1.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 116	4579	15-30	1.6
B 117	4400	15-30	1.6
B 118	4401	15-30	1.8
B 119	4318	15-30	1.4
B 120	4319	15-30	1.0
B 121	4320	15-30	1.8
B 122	4321	15-30	2.4
B 123	4322	15-30	1.3
B 124	4219	15-30	1.1
B 125	4221	15-30	0.5
B 126	4220	15-30	0.8
B 127	4222	15-30	0.8
B 128	4223	15-30	1.7
B 129	4323	15-30	2.9
B 130	4324	15-30	2.7
B 131	4325	15-30	1.4
B 132	4056	15-30	1.8
B 133	3807	15-30	2.4
B 134	3808	15-30	1.4
B 135	3809	15-30	1.9
B 136	3806	15-30	2.4
B 137	3732	15-30	2.8
B 138	3733	15-30	3.5
B 139	3734	15-30	2.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 140	3595	15-30	3.2
B 141	3596	15-30	2.7
B 142	3597	15-30	1.3
B 143	3598	15-30	2.8
B 144	3543	15-30	3.0
B 145	3544	15-30	2.2
B 146	3502	15-30	1.3
B 147	3503	15-30	3.0
B 148	3504	15-30	2.2
B 149	3505	15-30	3.5
B 150	3506	15-30	2.7
B 151	3507	15-30	3.4
B 152	3508	15-30	3.8
B 153	3509	15-30	1.3
B 154	3510	15-30	2.8
B 155	3511	15-30	2.1
B 156	3512	15-30	3.2
B 159	4640	15-30	1.7
B 160	4364	15-30	1.7
B 161	4365	15-30	1.6
B 162	4366	15-30	1.7
B 163	4580	15-30	1.5
B 164	4581	15-30	1.3
B 165	4582	15-30	1.0

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 166	4583	15-30	1.3
B 167	4402	15-30	1.7
B 168	4403	15-30	1.0
B 169	4326	15-30	2.1
B 170	4327	15-30	1.0
B 171	4328	15-30	2.0
B 172	4439	15-30	5.8
B 173	4440	15-30	2.2
B 174	4224	15-30	0.2
B 175	4225	15-30	0.9
B 176	4226	15-30	0.4
B 177	4227	15-30	2.4
B 178	4441	15-30	4.4
B 179	4442	15-30	4.5
B 180	4329	15-30	2.1
B 181	4057	15-30	1.4
B 182	4058	15-30	1.1
B 183	3810	15-30	1.4
B 184	3811	15-30	2.4
B 185	3812	15-30	2.2
B 186	3813	15-30	2.5
B 187	3745	15-30	2.7
B 188	3746	15-30	4.2
B 189	3747	15-30	4.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 190	3599	15-30	3.7
B 191	3600	15-30	2.1
B 192	3601	15-30	2.5
B 193	3602	15-30	3.1
B 194	3545	15-30	3.6
B 195	3546	15-30	3.0
B 196	3513	15-30	2.4
B 197	3514	15-30	3.5
B 198	3515	15-30	2.7
B 199	3516	15-30	4.2
B 200	3517	15-30	4.4
B 201	3518	15-30	4.9
B 202	3519	15-30	3.6
B 203	3520	15-30	3.9
B 204	3521	15-30	4.3
B 205	3522	15-30	2.9
B 206	3523	15-30	5.3
B 208	4641	15-30	1.1
B 209	4367	15-30	0.9
B 210	4368	15-30	1.1
B 211	4392	15-30	1.8
B 212	4393	15-30	1.4
B 213	4584	15-30	1.5
B 214	4586	15-30	1.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 215	4585	15-30	2.2
B 216	4404	15-30	1.7
B 217	4405	15-30	1.9
B 218	4443	15-30	1.7
B 219	4444	15-30	1.5
B 220	4445	15-30	1.7
F 221	4446	15-30	2.1
B 222	4447	15-30	2.1
B 223	4228	15-30	1.0
B 224	4229	15-30	1.4
B 225	4230	15-30	2.1
B 226	4448	15-30	4.8
B 227	4449	15-30	3.2
B 228	4330	15-30	1.9
B 229	4331	15-30	1.4
B 230	4239	15-30	0.5
B 231	4234	15-30	2.3
B 232	4235	15-30	1.7
B 233	4236	15-30	2.4
B 234	4237	15-30	2.2
B 235	4238	15-30	2.4
B 236	3748	15-30	3.1
B 237	3749	15-30	3.6
B 238	3750	15-30	2.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
B 239	3603	15-30	1.8
B 240	3604	15-30	1.9
B 241	3605	15-30	1.7
B 242	3606	15-30	3.2
B 243	3547	15-30	3.6
B 244	3548	15-30	4.3
B 245	3524	15-30	4.7
B 246	3525	15-30	4.0
B 247	3526	15-30	6.2
B 248	3527	15-30	4.9
B 249	3528	15-30	3.8
B 250	3529	15-30	4.6
B 251	3530	15-30	3.9
B 252	3531	15-30	4.4
B 253	3532	15-30	3.0
B 254	3533	15-30	2.1
B 255	3534	15-30	2.8
C 2	4406	15-30	1.1
C 3	4407	15-30	1.6
C 4	4369	15-30	0.7
C 5	4370	15-30	1.2
C 6	4371	15-30	1.2
C 7	4412	15-30	2.3
C 8	4413	15-30	1.9

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 9	4414	15-30	1.7
C 10	4408	15-30	0.6
C 11	4450	15-30	1.0
C 12	4451	15-30	1.5
C 13	4452	15-30	1.2
C 14	4498	15-30	1.7
C 15	4499	15-30	3.6
C 16	4231	15-30	1.9
C 17	4232	15-30	1.8
C 18	4233	15-30	5.3
C 19	4517	15-30	3.9
C 20	4518	15-30	2.2
C 21	4240	15-30	3.6
C 22	4241	15-30	3.0
C 23	4242	15-30	1.1
C 24	4243	15-30	1.7
C 25	4244	15-30	1.6
C 26	4460	15-30	3.7
C 27	4245	15-30	1.4
C 28	4246	15-30	2.7
C 29	3751	15-30	3.9
C 30	3752	15-30	2.6
C 31	3754	15-30	2.2
C 32	3753	15-30	2.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 33	3755	15-30	2.3
C 34	3756	15-30	5.4
C 35	3757	15-30	5.9
C 36	3758	15-30	4.9
C 37	3759	15-30	4.4
C 38	3760	15-30	2.0
C 39	3761	15-30	3.8
C 40	3762	15-30	3.8
C 41	3763	15-30	3.9
C 42	3764	15-30	4.2
C 43	3765	15-30	2.3
C 44	3766	15-30	2.2
C 45	3667	15-30	3.0
C 46	3668	15-30	4.4
C 47	3669	15-30	2.7
C 48	3670	15-30	3.9
C 49	4372	15-30	1.9
C 50	4373	15-30	2.6
C 51	4374	15-30	3.1
C 52	4375	15-30	1.5
C 53	4376	15-30	1.0
C 54	4415	15-30	2.2
C 55	4416	15-30	1.4
C 56	4417	15-30	0.8

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 57	4418	15-30	2.1
C 58	4453	15-30	1.8
C 59	4454	15-30	1.3
C 60	4455	15-30	1.7
C 61	4500	15-30	1.5
C 62	4501	15-30	1.6
C 63	4502	15-30	1.6
C 64	4503	15-30	2.4
C 65	4519	15-30	2.8
C 66	4520	15-30	2.5
C 67	4521	15-30	2.7
C 68	4247	15-30	1.7
C 69	4248	15-30	2.3
C 70	4249	15-30	1.3
C 71	4250	15-30	1.5
C 72	4843	15-30	2.4
C 73	4844	15-30	1.1
C 74	5092	15-30	1.3
C 75	5093	15-30	1.5
C 76	5094	15-30	2.8
C 77	5095	15-30	3.0
C 78	5096	15-30	2.2
C 79	5097	15-30	2.5
C 80	5098	15-30	1.4

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 81	5099	15-30	2.6
C 82	3767	15-30	6.2
C 83	3768	15-30	5.5
C 84	3769	15-30	6.1
C 85	3770	15-30	6.6
C 86	3771	15-30	4.6
C 87	3772	15-30	4.7
C 88	3773	15-30	3.9
C 89	3774	15-30	4.1
C 90	3775	15-30	3.7
C 91	3776	15-30	2.5
C 92	3671	15-30	3.3
C 93	3672	15-30	3.5
C 94	3673	15-30	2.2
C 95	3674	15-30	3.4
C 96	4377	15-30	1.9
C 97	4378	15-30	1.3
C 98	4379	15-30	1.2
C 99	4380	15-30	2.6
C 100	4419	15-30	2.1
C 101	4420	15-30	1.5
C 102	4421	15-30	2.3
C 103	4422	15-30	1.6
C 104	4457	15-30	2.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 105	4456	15-30	1.8
C 106	4504	31-46	1.5
C 107	4505	36-51	1.3
C 108	4506	36-51	2.4
C 109	4507	36-51	1.4
C 110	4508	33-48	2.8
C 111	4509	18-33	1.0
C 112	4522	15-30	1.4
C 113	4523	15-30	1.6
C 114	4251	15-30	0.6
C 115	4252	15-30	2.7
C 116	5100	15-30	1.4
C 117	5101	15-30	1.5
C 118	5102	15-30	4.2
C 119	5103	15-30	1.3
C 120	5104	15-30	1.0
C 121	5105	15-30	2.5
C 122	4845	15-30	4.3
C 123	4846	15-30	7.5
C 124	4847	15-30	4.9
C 125	3781	15-30	4.3
C 126	3782	15-30	4.2
C 127	3783	15-30	4.9
C 128	3784	15-30	5.0

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 129	3682	15-30	3.8
C 130	3683	15-30	3.8
C 131	3684	15-30	3.8
C 132	3685	15-30	4.6
C 133	3686	15-30	4.1
C 134	3687	15-30	5.0
C 135	3777	15-30	3.6
C 136	3778	15-30	2.8
C 137	3779	15-30	4.0
C 138	3675	15-30	2.7
C 139	3676	15-30	2.6
C 140	3679	15-30	2.7
C 141	3678	15-30	3.4
C 142	4381	15-30	1.0
C 143	4382	15-30	1.5
C 144	4383	15-30	1.2
C 145	4384	15-30	1.9
C 146	4423	15-30	1.6
C 147	4424	15-30	1.5
C 148	4425	15-30	1.9
C 149	4458	15-30	1.4
C 150	4459	15-30	1.3
C 151	4510	49-64	1.8
C 152	4511	57-72	1.7

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 153	4512	57-72	2.1
C 154	4513	57-72	2.1
C 155	4514	57-72	1.7
C 156	4515	57-72	1.3
C 157	4524	47-62	1.8
C 158	5106	33-48	2.0
C 159	5107	15-30	2.0
C 159	5108	15-30	0.9
C 160	5109	15-30	1.3
C 161	5110	15-30	2.1
C 162	5111	15-30	1.6
C 163	5112	15-30	1.8
C 164	5113	15-30	2.1
C 165	4823	15-30	1.8
C 166	4824	15-30	3.0
C 167	3785	15-30	6.4
C 168	3786	15-30	6.4
C 169	3787	15-30	5.9
C 170	3788	15-30	3.6
C 171	3789	15-30	3.7
C 172	3790	15-30	3.9
C 173	3791	15-30	5.3
C 174	3688	15-30	4.0
C 175	3689	15-30	3.4

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 176	3690	15-30	3.2
C 177	3691	15-30	2.9
C 178	3692	15-30	3.2
C 179	3693	15-30	4.4
C 180	3966	15-30	5.3
C 181	3967	15-30	5.9
C 182	3968	15-30	3.7
C 183	3641	15-30	5.1
C 184	3642	15-30	3.8
C 185	3644	15-30	2.2
C 186	3643	15-30	2.2
C 187	4385	15-30	1.8
C 188	4386	15-30	1.9
C 189	4387	15-30	1.3
C 190	4426	15-30	1.7
C 191	4427	15-30	1.8
C 192	4428	15-30	2.0
C 193	4488	15-30	1.4
C 194	4489	15-30	1.1
C 195	4525	49-64	3.9
C 196	4516	57-72	4.2
C 197	4850	57-72	3.9
C 198	4851	57-72	2.8
C 199	5114	57-72	0.8

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 200	5115	57-72	2.0
C 201	5116	57-72	1.7
C 202	5117	57-72	1.8
C 203	5118	57-72	1.9
C 204	5120	26-41	2.4
C 205	5121	15-30	1.7
C 206	4825	15-30	2.2
C 207	4826	15-30	2.1
C 208	4070	15-30	2.3
C 209	4071	15-30	4.0
C 210	3914	15-30	4.8
C 211	3792	15-30	5.9
C 212	3793	15-30	3.0
C 213	3794	15-30	4.3
C 214	3795	15-30	5.7
C 215	3796	15-30	3.6
C 216	3797	15-30	5.1
C 217	3798	15-30	5.6
C 218	3694	15-30	4.4
C 219	3695	15-30	3.5
C 220	3696	15-30	3.9
C 221	3697	15-30	2.4
C 222	3698	15-30	5.2
C 223	3694	15-30	5.3

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
C 224	3969	15-30	6.4
C 225	3970	15-30	4.6
C 226	3971	15-30	4.8
C 227	3646	15-30	4.3
C 228	3645	15-30	2.3
C 229	3679	15-30	1.9
C 230	3680	15-30	1.7
D 1	4409	15-30	1.6
D 2	4410	15-30	2.1
D 3	4411	15-30	1.7
D 4	4490	15-30	2.4
D 5	4492	15-30	1.6
D 6	4491	15-30	1.0
D 7	4493	15-30	0.9
D 8	4713	49-64	4.2
D 9	5084	57-72	1.2
D 10	5085	57-72	1.9
D 11	5086	57-72	1.2
D 12	5087	57-72	1.6
D 13	5088	57-72	1.8
D 14	5089	57-72	2.1
D 15	4827	57-72	2.9
D 16	4828	57-72	1.2
D 17	4130	27-42	2.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 18	4131	15-30	1.4
D 19	4072	15-30	2.9
D 20	4073	15-30	2.7
D 21	4074	15-30	3.1
D 22	3915	15-30	3.7
D 23	3916	15-30	2.8
D 24	3799	15-30	2.2
D 25	3800	15-30	2.9
D 26	3801	15-30	3.6
D 27	3802	15-30	3.0
D 28	3803	15-30	4.4
D 29	3780	15-30	5.1
D 30	3804	15-30	5.6
D 31	3700	15-30	4.0
D 32	3701	15-30	5.2
D 33	3702	15-30	4.2
D 34	3703	15-30	2.8
D 35	3704	15-30	3.3
D 36	3681	15-30	5.6
D 37	3972	15-30	6.4
D 38	3973	15-30	4.6
D 39	3647	15-30	4.4
D 40	3648	15-30	3.9
D 41	3649	15-30	2.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 42	3650	15-30	1.9
D 43	3651	15-30	2.4
D 44	4394	15-30	0.8
D 45	4395	15-30	1.0
D 46	4494	15-30	1.6
D 47	4495	15-30	1.3
D 48	4496	15-30	1.3
D 49	4497	15-30	2.2
D 50	4829	49-64	3.1
D 51	5090	57-72	1.9
D 52	5091	57-72	1.8
D 53	4830	57-72	1.0
D 54	4831	57-72	3.8
D 55	4832	57-72	1.6
D 56	4132	57-72	1.9
D 57	4133	57-72	2.1
D 58	4134	44-59	2.0
D 59	4135	15-30	1.5
D 60	4075	15-30	2.4
D 61	4076	15-30	4.5
D 62	4077	15-30	4.1
D 63	3917	15-30	4.1
D 64	3918	15-30	1.4
D 65	3919	15-30	3.7

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 66	3920	15-30	4.9
D 67	3921	15-30	2.5
D 68	3922	15-30	2.8
D 69	3923	15-30	2.9
D 70	3924	15-30	3.5
D 71	3925	15-30	3.0
D 72	3926	15-30	4.1
D 73	3705	15-30	3.0
D 74	3706	15-30	3.1
D 75	3707	15-30	3.3
D 76	3708	15-30	2.8
D 77	3709	15-30	2.4
D 78	3710	15-30	4.4
D 79	3974	15-30	5.6
D 80	3975	15-30	3.2
D 81	3652	15-30	6.5
D 82	3653	15-30	5.7
D 83	3654	15-30	4.1
D 84	3655	15-30	1.7
D 85	3656	15-30	2.1
D 202	4849	15-30	0.8
D 86	4696	15-30	1.1
D 87	4697	15-30	2.0
D 88	4698	15-30	1.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 89	4699	15-30	1.0
D 90	4700	15-30	2.8
D 91	5122	31-46	2.9
D 92	5123	29-44	2.4
D 93	4833	35-50	1.5
D 94	4587	35-50	1.2
D 95	4588	35-50	1.9
D 96	4589	35-50	1.1
D 97	4136	38-53	3.7
D 98	4137	57-72	1.9
D 99	4138	35-50	2.1
D 100	4139	15-30	2.4
D 101	4078	15-30	6.0
D 102A	4079	15-30	1.4
D 102B	4080	15-30	3.0
D 103	4022	15-30	1.7
D 104	4023	15-30	1.3
D 105	4024	15-30	1.2
D 106	4025	15-30	1.1
D 107	4026	15-30	1.6
D 108	4027	15-30	1.5
D 109	4028	15-30	3.4
D 110	4029	15-30	5.2
D 111	4030	15-30	2.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 112	4031	15-30	4.1
D 113	3711	15-30	3.7
D 114	3712	15-30	3.6
D 115	3713	15-30	2.8
D 116	3714	15-30	1.7
D 117	3715	15-30	3.4
D 118	3716	15-30	4.8
D 119	3976	15-30	4.1
D 120	3977	15-30	3.9
D 121	3657	15-30	7.2
D 122	3658	15-30	7.3
D 123	3659	15-30	8.0
D 124	3660	15-30	3.6
D 125	3661	15-30	3.0
D 126	4701	15-30	2.3
D 127	4702	15-30	1.5
D 128	4703	15-30	1.4
D 129	4704	15-30	1.4
D 130	4705	15-30	3.3
D 131	5124	15-30	3.8
D 132	5125	15-30	1.7
D 133	4598	15-30	1.5
D 134	4599	15-30	0.9
D 135	4590	15-30	1.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 136	4591	15-30	1.6
D 137	4140	20-35	3.2
D 138	4141	57-72	3.1
D 139	4142	35-50	2.2
D 140	4143	15-30	3.0
D 141	4144	15-30	4.7
D 142	4032	15-30	1.0
D 143	4033	15-30	3.0
D 144	4034	15-30	1.0
D 145	4035	15-30	2.5
D 146	4036	15-30	5.9
D 147	4037	15-30	2.1
D 148	4038	15-30	3.6
D 149	4039	15-30	5.5
D 150	4040	15-30	4.7
D 151	5025	15-30	4.6
D 152	3717	15-30	3.2
D 153	3718	15-30	3.0
D 154	3719	15-30	3.2
D 155	3720	15-30	2.3
D 156	3721	15-30	3.6
D 157	3722	15-30	6.3
D 158	3978	15-30	5.3
D 159	3979	15-30	4.4

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 160	3662	15-30	6.4
D 161	3663	15-30	6.1
D 162	3664	15-30	8.9
D 163	3665	15-30	2.5
D 164	3666	15-30	1.9
D 165	4706	15-30	1.5
D 166	4707	15-30	2.5
D 167	4708	15-30	2.1
D 168	4709	15-30	1.9
D 169	4834	15-30	2.1
D 170	5126	15-30	3.3
D 171	5127	15-30	2.0
D 172	4642	15-30	1.2
D 173	4643	15-30	0.8
L 174	4592	15-30	1.1
D 175	4593	15-30	2.0
D 176	4594	20-35	5.6
D 177	4145	57-72	4.3
D 178	4146	35-50	3.6
D 179A	4093	15-30	2.0
D 179B	4147	15-30	1.9
D 180	4094	15-30	1.4
D 181	4095	15-30	1.9
D 182	4096	15-30	3.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
D 183	4097	15-30	2.8
D 184	4098	15-30	3.9
D 185	4099	15-30	4.2
D 186	4100	15-30	2.6
D 187	4101	15-30	2.5
D 188	5026	15-30	2.8
D 189	5027	15-30	2.7
D 190	5028	0-15	1.2
D 191	5029	0-15	0.9
D 192	5030	0-15	1.4
D 193	5031	0-15	1.9
D 194	5032	0-15	1.2
D 195	5023	0-15	2.5
D 196	5024	0-15	2.5
D 197	5033	0-15	2.0
D 198	5034	0-15	0.8
D 199	5036	0-15	1.6
D 200	5035	0-15	1.5
D 201	5038	0-15	1.5
E 1	4710	15-30	1.7
E 2	4711	15-30	2.7
E 3	4712	15-30	1.8
E 4	4835	15-30	1.5
E 5	4836	15-30	2.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
E 6	5128	0-15	2.2
E 7	5129	15-30	1.9
E 8	4644	15-30	1.1
E 9	4645	15-30	0.7
E 10	4595	15-30	1.1
E 11	4596	15-30	1.2
E 12	4597	20-35	2.5
E 13	4185	57-72	3.4
E 14	4149	57-72	5.1
E 15	4150	15-30	1.4
E 16	4151	15-30	1.8
E 17	4152	15-30	2.1
E 18	4153	15-30	7.6
E 19	4102	15-30	7.5
E 20	4103	15-30	3.0
E 21	4104	15-30	5.4
E 22	4105	15-30	3.7
E 23	4994	15-30	7.2
E 24	4995	15-30	2.4
E 25	4997	15-30	0.9
E 29	5040	0-15	1.4
E 30	5039	0-15	1.0
E 31	5041	0-15	1.8
E 34	5042	0-15	1.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
E 36	5044	15-30	2.5
E 37	4812	15-30	1.4
E 38	4813	15-30	1.1
E 39	4814	0-15	1.2
E 40A	4837	15-30	1.3
E 40B	4838	0-15	1.1
E 41	4839	15-30	1.4
E 42	5130	15-30	1.3
E 43	5131	15-30	3.5
E 44	4840	15-30	2.0
E 45	4646	15-30	1.6
E 46	4647	15-30	2.3
E SS1	4526	15-30	1.1
E SS2	4527	15-30	4.6
E 47	4154	55-70	2.1
E 48	4155	82-97	1.2
E 49	4156	110-125	4.4
E 50	4106	122-137	5.6
E 51	4107	146-161	4.9
E 52	4108	149-164	3.3
E 53	4109	15-30	3.6
E 54	4999	15-30	8.0
E 55	5000	15-30	7.7
E 56	5001	15-30	1.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
E 67	5055	15-30	2.5
E 68	4815	15-30	1.9
E 69	4816	15-30	1.2
E 70	4817	0-15	0.9
E 71	4841	0-15	1.3
E 72	5132	0-15	1.9
E 73	5133	15-30	3.5
E 74	5134	15-30	1.7
E 75	4842	15-30	2.7
E 76	4648	15-30	1.8
E SS3	4528	15-30	1.3
E SS4	4529	15-30	2.6
E 77	4157	149-164	1.3
E 78	4158	149-164	1.7
E 79	4159	149-164	2.4
E 80	4110	149-164	4.3
E 81	4111	149-164	3.8
E 82	4112	149-164	5.0
E 83	4113	15-30	5.2
E 84	5002	15-30	11.0
E 85	5003	69-84	3.4
E 86	5004	69-84	1.5
E 96	5047	15-30	1.4
E 97	5049	15-30	3.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
E 99	5060	15-30	2.3
E 100	4818	15-30	1.8
E 101	4819	15-30	1.1
E 146A	4760	15-30	1.9
E 147	5137	15-30	2.0
E 148	4649	15-30	4.5
E 149	4650	15-30	2.5
E SS5	4530	15-30	1.2
E SS6	4531	15-30	2.2
E SS7	4532	15-30	5.0
E 102	4461	149-164	1.8
E 103	4462	149-164	4.9
E 104	4463	149-164	2.9
E 105	4123	149-164	5.5
E 106	4122	149-164	3.4
E 107	4464	15-30	4.5
E 108	5005	15-30	8.2
E 109	5006	122-137	6.3
E 110	5007	122-137	0.7
E 119	5048	0-15	3.1
E 120	5140	15-30	2.1
E 121	5051	15-30	1.8
E 124	5059	15-30	1.9
E 124	4820	15-30	1.3

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
E 125	4821	15-30	1.6
E 150	4651	15-30	3.2
E 151	4652	15-30	9.1
E SS8	4533	15-30	1.7
E SS9	4534	15-30	1.5
E SS10	4535	15-30	3.8
E SS11	4536	15-30	2.0
E 146B	5136	15-30	3.1
E 126	4465	149-164	2.4
E 127	4466	149-164	4.7
E 128	4124	149-164	4.8
E 129	4125	149-164	3.5
E 130	4467	149-164	1.0
E 131	4468	15-30	6.9
E 132	5008	15-30	9.1
E 133	5009	122-137	2.9
E 134	5010	122-137	1.7
E 143	5050	0-15	2.6
E 144	5141	15-30	1.4
E 145	5053	15-30	2.6
F 3	5061	15-30	1.8
F 4	5063	15-30	2.3
F 5	4795	15-30	2.3
F SS1	4537	15-30	1.2

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (REL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F SS2	4538	15-30	1.8
F SS3	4903	15-30	7.0
F SS4	4907	15-30	3.3
F 6	4761	0-15	1.2
F 7A	4762	0-15	0.8
F 7B	4763	149-164	1.4
F 8	4469	149-164	1.6
F 9	4470	149-164	1.8
F 10	4126	149-164	1.5
F 11	4127	149-164	1.8
F 12	4128	149-164	1.9
F 13	4471	149-164	2.2
F 14	4472	15-30	3.5
F 15	5011	15-30	4.6
F 16	5012	122-137	7.6
F 17	5013	122-137	2.5
F 19	5142	0-15	1.5
F 22	5119	0-15	2.5
F 26	5045	0-15	2.1
F 27	5022	15-30	1.7
F 28	5052	15-30	2.4
F 31	4857	15-30	2.6
F 32	5067	15-30	1.9
F 32	4856	15-30	2.1

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F SS11	4859	15-30	2.6
F SS5	4539	15-30	0.9
F SS6	4540	15-30	3.4
F SS7A	4541	15-30	2.0
F SS7B	4791	15-30	2.6
F SS8	4792	15-30	1.3
F 33	4796	15-30	1.1
F 34	4797	15-30	1.1
F 35	4764	0-15	1.4
F 36	4765	0-15	1.2
F 37	4473	15-30	0.71
F 38	4475	149-164	2.0
F 39	4474	149-164	2.3
F 40	4476	149-164	2.4
F 41	4477	149-164	2.1
F 42	4478	149-164	2.8
F 43	4129	149-164	7.8
F 44	4479	149-164	2.9
F 45	4480	15-30	2.9
F 46	4996	15-30	3.1
F 47	5014	122-137	2.4
F 48	5015	122-137	2.3
F 49	5046	15-30	2.4

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F 50	4998	15-30	2.3
F 51	5074	15-30	1.9
F 53	5077	15-30	1.3
F 54	5037	15-30	0.6
F 55	5043	15-30	0.9
F 156	5058	15-30	2.3
F 157	5075	15-30	1.9
F 158	5021	15-30	1.7
F 159	5056	15-30	2.1
F 162	5068	15-30	2.1
F SS13	4881	15-30	3.3
F SS12	4860	15-30	4.2
F SS14	4882	15-30	8.0
F SS15	4883	15-30	4.5
F SS9	4793	15-30	1.0
F SS10	4794	15-30	1.5
F 163	4798	15-30	2.3
F 164	4799	15-30	1.7
F 165	4766	0-15	1.5
F 166	4767	0-15	1.8
F 167	4714	15-30	1.5
F 168	4481	15-30	2.5
F 169	4482	149-164	2.9
F 170	4493	149-164	2.8

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F 171	4484	149-164	2.1
F 172	4485	149-164	2.8
F 173	4486	149-164	3.8
F 174	4487	149-164	2.3
F 175	4715	149-164	4.1
F 176	4716	15-30	4.3
F 177	5016	15-30	2.5
F 178	5017	69-84	1.8
F 179	5018	69-84	2.0
F 180	5019	69-84	1.8
F 181	5020	122-137	1.0
F 182	5079	122-137	1.9
F 183	5080	69-84	2.1
F 184	5081	15-30	1.5
F 185	5076	15-30	2.8
F 186	5078	15-30	1.5
F 187	5062	15-30	2.0
F 188	5083	15-30	1.2
F 189	5054	27-42	1.0
F 190	5057	21-36	3.9
F SS16	5064	15-30	2.4
F SS16	4884	15-30	2.4
F SS17	4885	15-30	1.4
F SS18	4886	15-30	3.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F 191	4768	15-30	1.5
F 192	4769	15-30	2.3
F 193	4770	0-15	1.4
F 194	4771	15-30	1.4
F 195	4663	15-30	2.0
F 196	4717	15-30	3.4
F 197	4718	149-164	2.7
F 198	4664	149-164	2.2
F 199	4665	149-164	3.7
F 200	4666	149-164	2.5
F 201	4667	149-164	3.5
F 202	4786	149-164	2.0
F 203	4787	149-164	1.3
F 204	4668	15-30	2.3
F 205	4669	15-30	6.5
F 206	4670	15-30	3.6
F 207	4114	15-30	1.9
F 208	4115	15-30	1.9
F 209	4116	122-137	2.4
F 210	4117	122-137	2.0
F 211	4118	122-137	1.5
F 212	5082	0-15	3.4
F 217	4435	84-99	2.9
F 218	4436	61-76	2.0

TABLE 3.1
 VERIFICATION SOIL SAMPLE SURVEY
 PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F SS19	5065	15-30	3.1
F SS20	4888	15-30	2.6
F SS21	4887	15-30	5.4
F 219	4772	0-15	2.7
F 220	4773	0-15	2.0
F 221	4774	0-15	1.7
F 222	5066	0-15	1.8
F 223	4671	15-30	2.6
F 224	4672	15-30	2.8
F 225	4673	149-164	1.7
F 226	4674	149-164	1.9
F 227	4675	149-164	3.8
F 228	4676	149-164	3.8
F 229	4677	149-164	4.8
F 230	4788	149-164	3.1
F 231	4789	149-164	3.0
F 232	4678	149-164	5.3
F 233	4679	149-164	5.2
F 234	4680	149-164	2.5
F 235	4119	149-164	1.3
F 236	4120	149-164	2.4
F 237	4121	122-137	1.2
F 238	4062	122-137	3.0
F 239	4061	122-137	1.5

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
F 245	4437	84-99	5.6
F 246	4438	61-76	2.6
G SS26	4896	114-129	4.8
G SS19	4890	114-129	2.5
G SS20	4889	114-129	3.1
G SS21	4892	114-129	2.9
G SS22	4891	114-129	5.5
G 1	4776	114-129	1.4
G 2	4777	114-129	2.2
G 3	4778	0-15	2.1
G 139	4782	0-15	1.0
G 138	4720	149-164	1.6
G 4	4719	149-164	2.1
G 5	4681	149-164	1.9
G 6	4682	149-164	2.3
G 7	4683	149-164	2.9
G 8	4684	149-164	3.2
G 9	4685	149-164	5.1
G 10	4686	149-164	2.2
G 11	4622	149-164	1.5
G 12	4623	149-164	1.5
G 13	4624	149-164	1.4
G 14	4625	149-164	1.5
G 15	4626	122-137	2.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
G 16	4065	122-137	2.6
G 17	4069	122-137	2.4
G 18	4064	0-15	2.4
G 23	4160	84-99	2.4
G 24	4161	61-76	1.6
G SS27	5070	114-129	4.8
G SS27	4904	114-129	3.0
G SS23	4894	114-129	5.6
G SS24	4893	114-129	1.3
G 25	4905	114-129	0.8
G 26	4906	114-129	1.4
G 27	4779	114-129	1.2
G 28	4780	114-129	1.6
G 29	4781	114-129	0.7
G 30	4783	0-15	1.2
G 31	5073	0-15	4.8
G 35	4687	149-164	2.5
G 36	4688	149-164	1.9
G 37	4689	149-164	1.5
G 38	4690	149-164	1.8
G 39	4691	149-164	2.8
G 40	4692	149-164	1.5
G 41	4627	149-164	1.5
G 42	4628	149-164	1.7

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
G 43	4629	149-164	1.6
G 44	4630	149-164	2.5
G SS1	4613	149-164	2.2
G SS2	4614	122-137	2.7
G 45	4059	122-137	1.3
G 46	4066	122-137	1.6
G 47	4063	122-137	1.7
G 48	4060	0-15	1.7
G 53	4162	84-99	1.9
G 54	4163	61-76	2.0
G SS25	4895	114-129	2.9
G 55	4897	114-129	2.4
G 56	4898	114-129	2.5
G 57	4899	114-129	2.4
G 58	4900	114-129	1.4
G 59	4784	114-129	1.0
G 60	4785	114-129	0.6
G 61	4743	0-15	1.7
G 62	4744	0-15	0.72
G 63	4745	0-15	1.3
G 64	4746	0-15	0.6
G 68	4693	149-164	2.2
G 69	4694	149-164	2.3
G 70	4695	149-164	5.1

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
G 71	4631	149-164	2.0
G 72	4632	149-164	1.9
G 73	4633	149-164	3.7
G SS3	4615	149-164	5.0
G SS4	4616	149-164	2.1
G SS5	4617	122-137	1.3
G 74	4068	122-137	1.3
G 75	4042	122-137	2.0
G 76	4043	122-137	2.9
G 78	4067	0-15	1.4
G 83	4164	84-99	3.3
G 84	4165	61-76	2.6
G 85	5069	114-129	2.7
G 86	4902	114-129	2.4
G 87	4865	114-129	2.5
G 88	4866	114-129	2.3
G 89	4867	114-129	1.8
G 90	4868	114-129	1.9
G 91	4869	114-129	1.2
G 92	4749	0-15	1.6
G 93	4750	0-15	1.1
G 94	4751	0-15	0.9
G 95	4752	0-15	1.2
G 96	4753	0-15	1.6

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
G 97	5138	0-15	1.7
G 98	3993	15-30	1.6
G SS7	5139	15-30	2.6
G SS8	4852	15-30	2.1
G SS9	4853	15-30	2.2
G SS10	4854	15-30	4.1
G SS11	4618	15-30	3.7
G SS12	4619	15-30	12.3
G SS13	4620	15-30	5.9
G SS14	4621	15-30	1.3
G 99	3994	122-137	1.4
G 100	4044	122-137	2.0
G 101	4045	122-137	2.9
G 107	4166	84-99	3.5
G 108	4167	49-64	3.4
G 110	5071	114-129	2.9
G 111	4901	114-129	6.0
G 112	4870	114-129	1.7
G 113	4871	114-129	2.3
G 114	4872	114-129	3.0
G 115	4873	114-129	2.6
G 116	4754	0-15	1.2
G 117	4755	0-15	2.1
G 118	4756	0-15	1.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
G 119	4757	0-15	1.2
G 120	4758	15-30	0.9
G 121	4759	15-30	1.3
G 122	4863	15-30	1.5
G 123	4862	15-30	2.7
G SS16	4855	15-30	3.1
G SS17	4856	15-30	3.5
G SS18	4790	15-30	3.1
G 124	3995	15-30	2.9
G 125	3996	15-30	2.2
G 126	3997	15-30	2.7
G 127	3998	15-30	1.7
G 128	3999	15-30	1.6
G 129	4046	122-137	1.7
G 130	4047	122-137	2.7
G 136	4168	84-99	3.6
G 137	4169	15-30	2.4
H 3	5072	114-129	3.5
H 4	4874	114-129	1.5
H 5	4875	114-129	1.8
H 6	4876	114-129	2.9
H 7	4877	15-30	4.5
H 8	4722	0-15	1.7
H 9	4724	0-15	1.8

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
H 10	4721	0-15	1.5
H 11	4723	0-15	1.5
H 12	4725	15-30	2.1
H 13	4726	15-30	2.3
H 14	4861	15-30	3.7
H 15	4864	15-30	1.4
H 16	4600	15-30	1.0
H 17	4601	15-30	0.9
H 18	4000	15-30	1.0
H 19	4001	15-30	1.4
H 20	4002	15-30	3.2
H 21	4003	15-30	2.7
H 22	4004	15-30	1.5
H 23	4048	122-137	1.9
H 24	4049	122-137	1.7
H 30	4170	84-99	2.6
H 31	4171	15-30	1.5
H 33	4912	114-129	4.4
H 34	4878	114-129	3.8
H 35	4879	114-129	7.6
H 36	4880	114-129	3.9
H 37	4727	15-30	3.8
H 38	4728	15-30	1.9
H 39	4729	15-30	1.9

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
H 40	4730	15-30	2.4
H 41	4731	15-30	3.1
H 42	4732	15-30	2.4
H 43	4734	15-30	2.0
H 44	4733	15-30	1.5
H 45	4602	15-30	2.0
H 46	4603	15-30	1.0
H 47	4604	15-30	1.4
H 48	4005	15-30	1.3
H 49	4006	15-30	1.2
H 50	4007	15-30	1.6
H 51	4008	15-30	2.3
H 52	4009	15-30	1.8
H 53	4050	122-137	0.85
H 54	4041	122-137	2.1
H 60	4172	84-99	1.5
H 61	4173	15-30	4.3
H 63	4914	114-129	2.7
H 64	4913	114-129	3.4
H 65	4916	114-129	2.7
H 66	4735	15-30	2.5
H 67	4747	15-30	3.0
H 68	4736	15-30	2.8
H 69	4737	15-30	3.9

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
H 70	4738	15-30	2.6
H 71	4748	15-30	2.0
H 72	4739	15-30	2.1
H 73	4605	15-30	2.7
H 74	4606	15-30	1.2
H 75	4607	15-30	2.3
H 76	4608	15-30	1.3
H 77	4011	15-30	1.9
H 78	4010	15-30	0.1
H 79	4012	15-30	1.3
H 80	4013	69-84	2.1
H 81	4014	69-84	2.1
H 82	4429	122-137	2.1
H 83	4430	82-97	1.9
H 84	4081	15-30	1.6
H 85	4082	15-30	1.6
H 86	4083	15-30	1.1
H 88	4174	84-99	1.8
H 89	4175	84-99	2.1
H 90	4175	15-30	4.8
H 92	4915	15-30	2.8
H 93	4917	15-30	3.7
H 94	4918	15-30	2.6
H 95	4921	15-30	3.3

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
H 96	4740	15-30	1.8
H 97	4741	15-30	1.9
H 98	4742	15-30	1.5
H 99	4609	0-15	3.0
H 100	4610	15-30	0.8
H 101	4611	15-30	3.8
H 102	4612	15-30	0.6
H 103	4015	15-30	5.6
H 104	4016	15-30	1.1
H 105	4017	15-30	1.6
H 106	4018	122-137	1.7
H 107	3965	122-137	1.2
H 108	4431	122-137	1.6
H 109	4085	26-41	2.9
H 110	4086	15-30	1.9
H 111	4087	15-30	1.9
H 112	4088	15-30	2.0
H 113	4084	15-30	1.6
H 114	4432	84-99	2.9
H 115	4433	84-99	1.9
H 116	4434	15-30	3.4
H 117	4919	15-30	4.0
H 118	4920	15-30	1.8
H 119	4922	15-30	2.2

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
H 131	4848	15-30	1.5
H 120	4019	47-62	1.6
H 121	4020	35-50	1.9
H 122	4021	33-48	4.0
H 123	4089	15-30	2.1
H 124	4090	15-30	2.4
H 125	4091	15-30	1.4
H 126	4092	15-30	1.9
H 127	3989	15-30	1.9
H 128	3990	15-30	1.5
H 129	3991	15-30	2.2
H 130	3992	15-30	1.7
I 1	3980	15-30	2.2
I 2	3981	15-30	1.0
I 3	3982	15-30	1.5
I 4	3983	15-30	2.2
I 5	3984	15-30	1.3
I 6	3985	15-30	2.3
I 7	3986	15-30	2.0
I 8	3987	15-30	1.9
I 9	3988	15-30	2.1
BS 1	4923	0-15	1.9
BS 2	4924	0-15	1.6
BS 3	4925	0-15	1.8

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
BS 4	4926	0-15	1.9
BS 5	4927	0-15	1.7
BS 6	4928	0-15	1.5
BS 7	4929	0-15	1.7
BS 8	4930	0-15	1.6
BS 9	4931	0-15	1.5
BS 10	4932	0-15	1.8
BS 11	4933	0-15	1.8
BS 12	4934	0-15	2.3
BS 13	4935	0-15	1.8
BS 14	4936	0-15	1.2
BS 15	4937	0-15	1.4
BS 16	4938	0-15	1.2
BS 17	4939	0-15	0.5
BS 18	4940	0-15	1.4
BS 19	4941	0-15	0.6
BS 20	4942	0-15	1.2
BS 21	4943	0-15	1.1
BS 22	4944	0-15	1.4
BS 23	4945	0-15	1.0
BS 24	4946	0-15	1.3
BS 25	4947	0-15	1.0
BS 26	4948	0-15	1.6
BS 27	4949	0-15	1.4

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
BS 28	4950	0-15	1.1
BS 29	4951	0-15	1.1
BS 30	4952	0-15	1.5
BS 31	4953	0-15	1.5
BS 32	4954	0-15	1.6
BS 33	4955	0-15	1.6
BS 34	4956	0-15	1.3
BS 35	4957	0-15	1.2
BS 36	4958	0-15	1.2
BS 37	4959	0-15	0.4
BS 38	4960	0-15	1.5
BS 39	4961	0-15	1.0
BS 40	4962	0-15	1.3
BS 41	4963	0-15	1.5
BS 42	4964	0-15	1.5
BS 43	4965	0-15	1.6
BS 44	4966	0-15	1.2
BS 45	4967	0-15	2.1
BS 46	4968	0-15	1.6
BS 47	4969	0-15	0.9
BS 48	4970	0-15	1.4
BS 49	4971	0-15	1.1
BS 50	4972	0-15	1.3
BS 51	4973	0-15	0.9

TABLE 3.1
VERIFICATION SOIL SAMPLE SURVEY
PROPERTY RF-493S

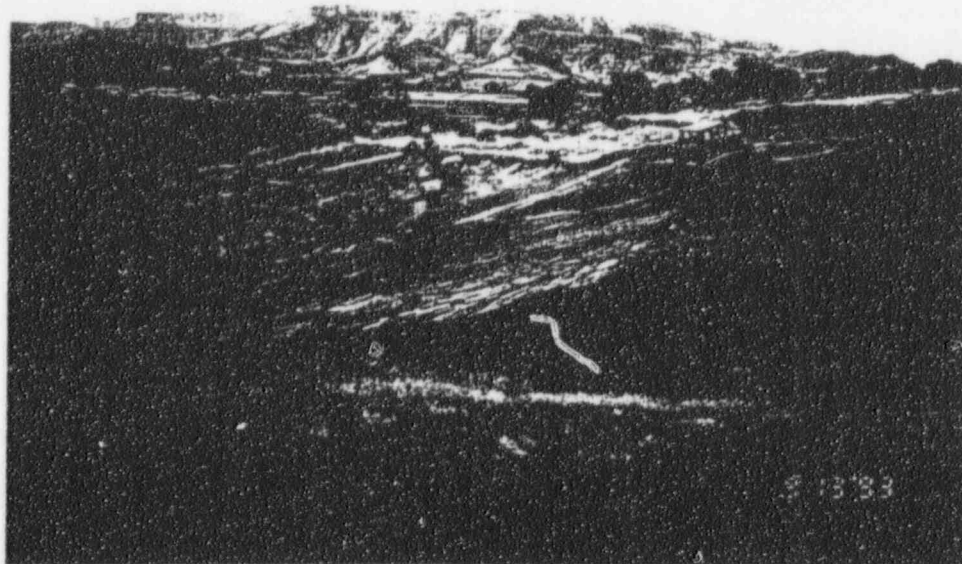
GRID ID	SAMPLE ID (RFL-SV-)	SAMPLE DEPTH (cm)	RA-226 CONC. (pCi/g)
BS 52	4974	0-15	0.9
BS 53	4975	0-15	1.7
BS 54	4976	0-15	0.5
BS 55	4977	0-15	1.7
BS 56	4978	0-15	1.2
BS 57	4979	0-15	1.3
BS 58	4980	0-15	0.7
BS 59	4981	0-15	2.0
BS 60	4982	0-15	1.2
BS 61	4983	0-15	1.2
BS 62	4984	0-15	1.1



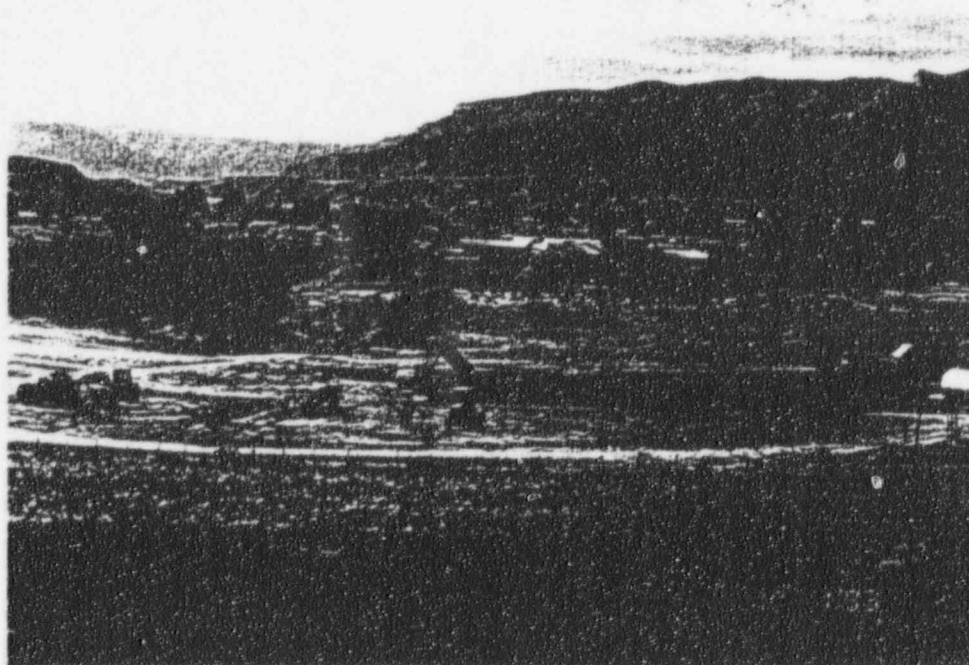
Looking Southeast at Area 'A' during excavation of gullies.



Looking East at Area 'A' during excavation.



Looking West at Area 'A-2' during excavation.



Looking West at Northeast corner of property
during placement of common fill.



Looking South, west edge of property prior to backfilling.



Looking Northwest at Area 'A' during placement of backfill.



Looking Notheast at Area 'A' after backfilling.



Looking Southeast at Area 'A' after backfill and
scarifying gullies.



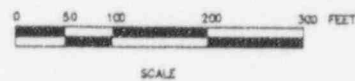
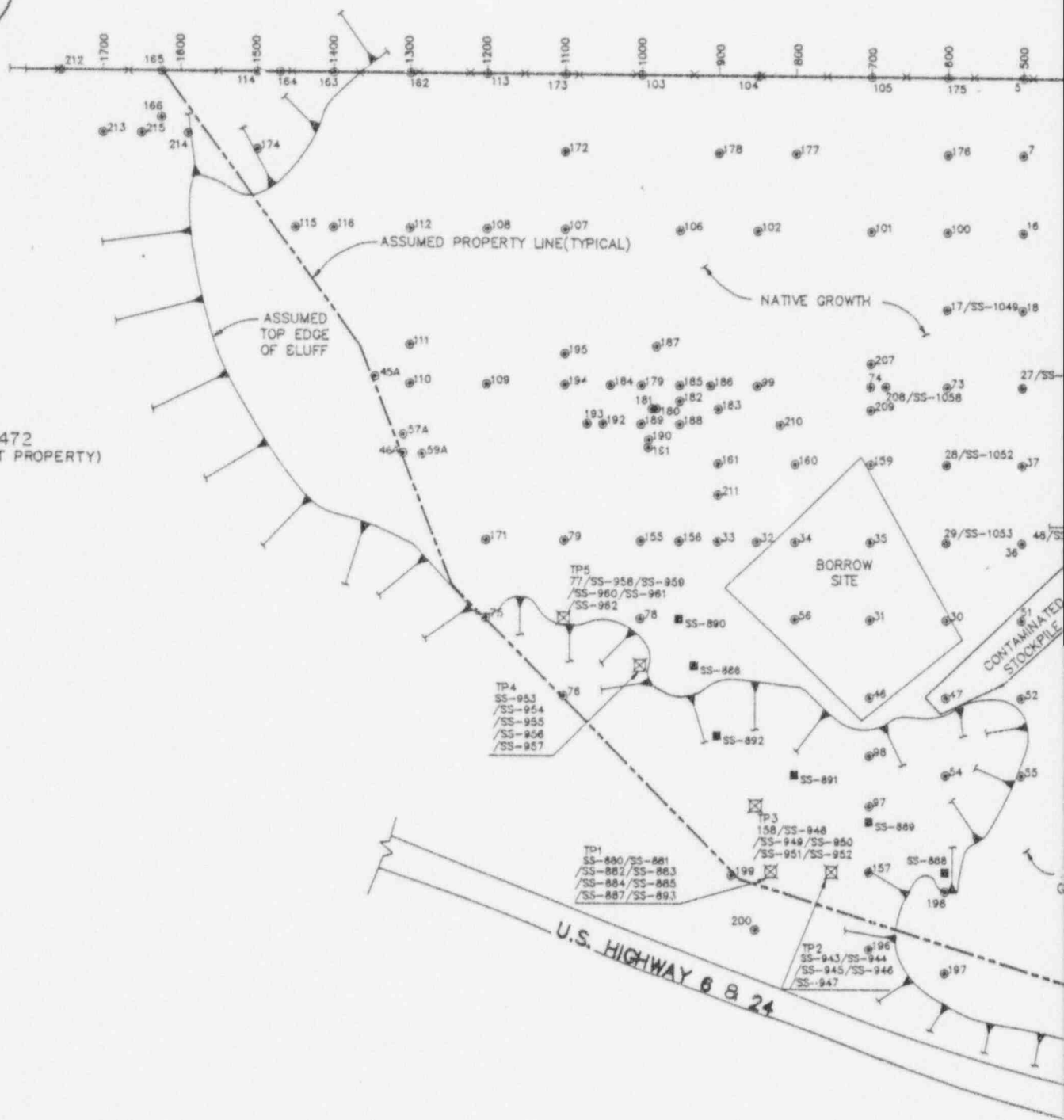
Looking South, southwest corner of S. pond after backfill.

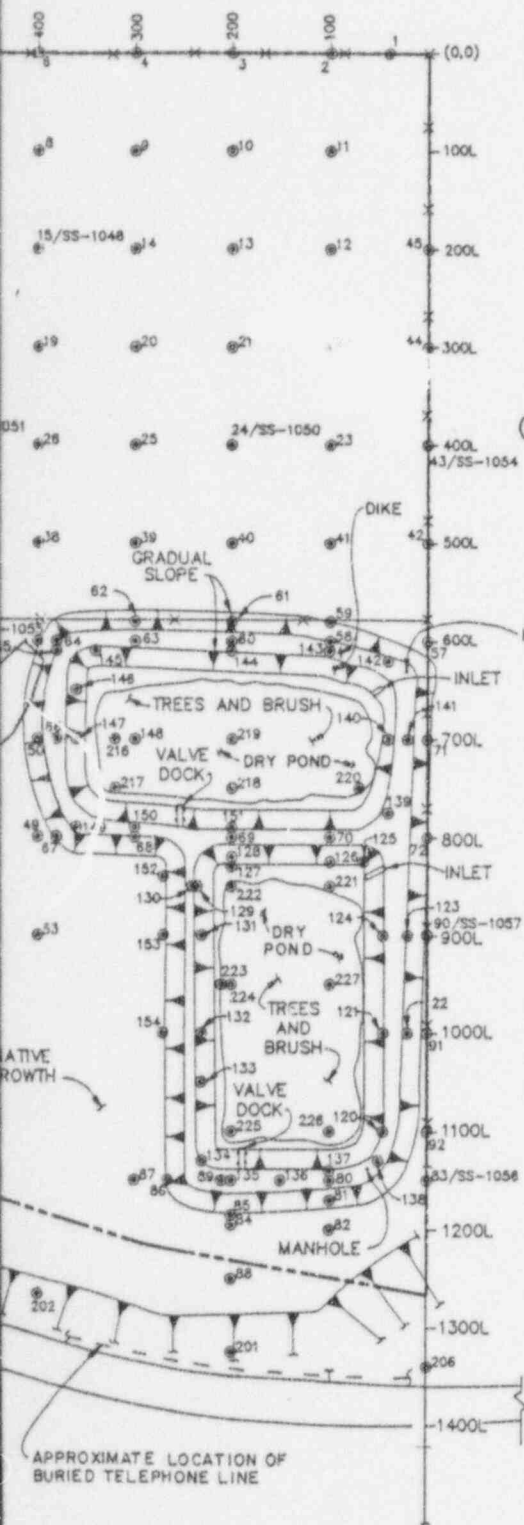


Looking West, south dike of S. pond after backfill.



RF-472
(ADJACENT PROPERTY)





RF-430
(ADJACENT PROPERTY)

LEGEND

- 1 BOREHOLE DESIGNATION
- SS-886 SOIL SAMPLE DESIGNATION
- ⊙ 15/SS-1048 SOIL SAMPLE AND BOREHOLE DESIGNATION
- ⊠ TP2 TEST PITS AND SOIL SAMPLES
SS-293/SS-944
/SS-945/SS-946
/SS-947
- ⊠ TP3 TEST PITS AND BOREHOLES AND SOIL SAMPLES
158/SS-948
/SS-949/SS-950
/SS-951/SS-952
- ⊙ 45A BOREHOLE DESIGNATION FOR RF-472
RSA BOREHOLES

ANSTEC APERTURE CARD

Also Available on
Aperture Card

NOTE:

1. SEE DRAWING RF-493-016 FOR AREA LOCATIONS AND COORDINATES (ESTIMATED LIMITS OF CONTAMINATION).
2. AFTER THE RADIOLOGICAL SURVEY, CONTAMINATED SURFACE MATERIAL WAS STRIPPED FROM THE "BORROW SITE" AND PLACED IN THE "STOCKPILE" AREA.

9611070079-01

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

DESIGNED/DRAWN
HOUEK

CHECKED

REVIEWED

RECOMMENDED

APPROVED

NR

DATE

DOE PROJECT MANAGER

NR

DATE

DOE PROJECT ENGINEER

NR

DATE

RADIOLOGICAL SURVEY DATA
SHEET 1 OF 2
RF-493

RIFLE, COLORADO

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

PROJECT NO.

DE-ACO4-83AL18796

DRAWING NO.

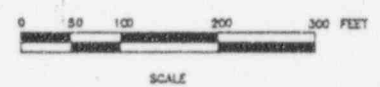
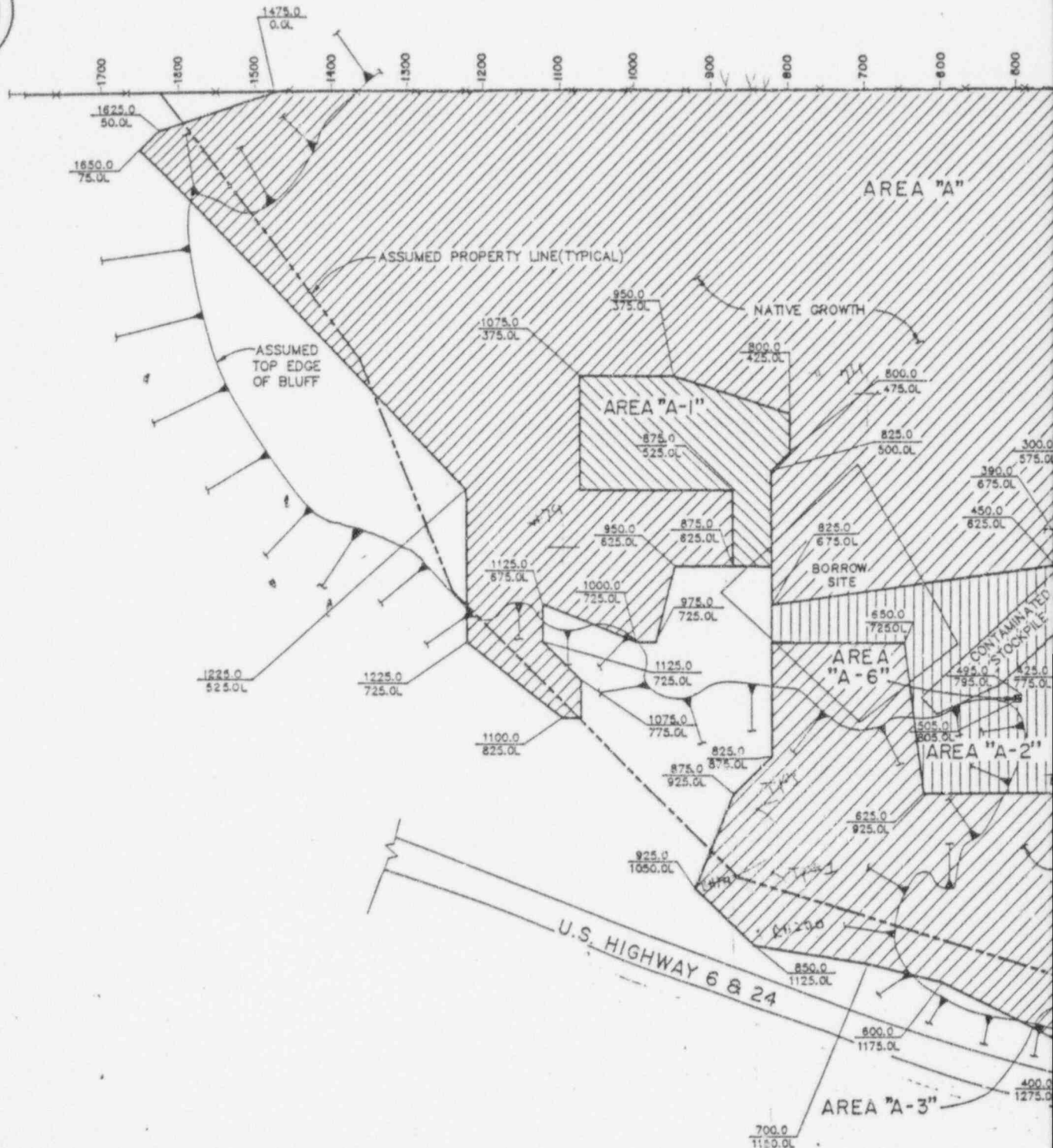
RF-493-015

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MK-FERGUSON
A MORRISON KNUDSEN COMPANY



ESTIMATED DEPTH OF CONTAMINATION



6 INCHES



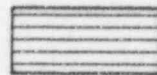
12 INCHES



12 INCHES TO 42 INCHES



18 INCHES TO 36 INCHES



18 INCHES TO 78 INCHES



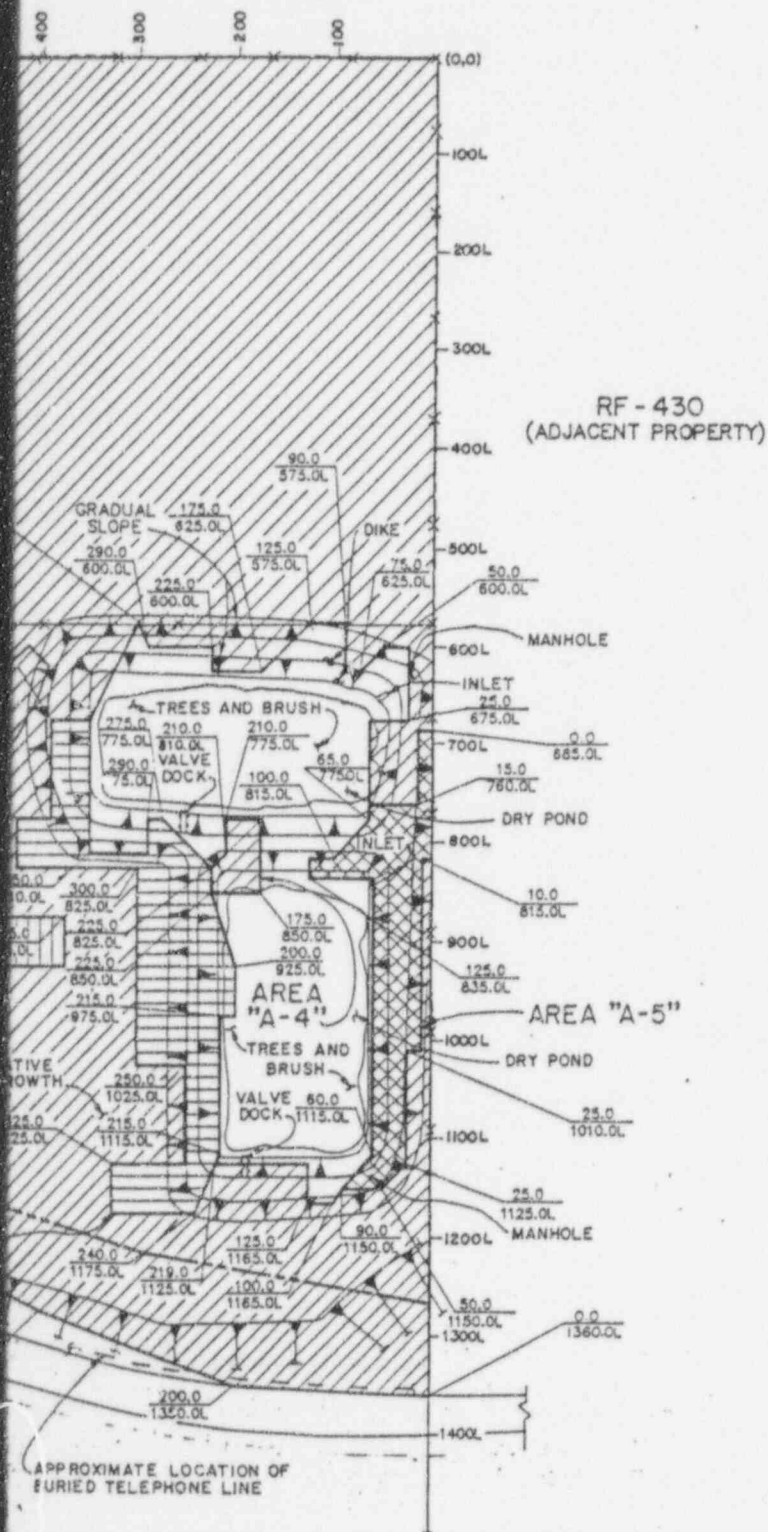
78 INCHES

ANSTEC APERTURE CARD

Also Available on
Aperture Card

NOTE:

1. SEE DRAWING RF-493-015 FOR BOREHOLE, SOIL SAMPLE AND TEST PIT LOCATIONS.
2. AFTER THE RADIOLOGICAL SURVEY, CONTAMINATED SURFACE MATERIAL WAS STRIPPED FROM THE "BORROW SITE" AND PLACED IN THE "STOCKPILE" AREA. EXTENT OF MATERIAL STRIPPED AND STOCKPILED IS APPROXIMATELY 2072.1 CUBIC YARDS.



9611070079-02

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

DESIGNED/DRAWN
HOUEK
CHECKED
REVIEWED
RECOMMENDED

RADIOLOGICAL SURVEY DATA
SHEET 2 OF 2
RF-493

RIFLE, COLORADO
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

APPROVED NR DATE DOE PROJECT MANAGER DATE DOE PROJECT ENGINEER DATE

PROJECT NO.

DE-AC04-83AL18796

DRAWING NO. RF-493-016

REV. B

MK-FERGUSON
A MORRISON KNUDSEN COMPANY

NO.	DATE	REVISIONS	DRAWN BY	CHECKED BY	APPROVAL LDE	APPROVAL DM	PROJ. ENG.	APPROVAL DOE
1	1/28/84	CHANGED AREA TO INCLUDE BOREHOLE 206	PHC					
2	2/2/84	FINAL REA SUBMITTAL	PH					



(NOTES CONTINUED)

12. EXCAVATE AROUND TREES AS REQUIRED TO MAINTAIN ROOT SYSTEMS. TREES WITH TRUNKS 8 INCH IN DIAMETER OR LESS WHEN MEASURED 6 FEET ABOVE THE GROUND SHALL BE REMOVED AS REQUIRED TO PERFORM REMEDIAL ACTION AS DIRECTED BY THE CONTRACTOR'S REPRESENTATIVE. TREES SHALL BE DISPOSED OF AS SUBCONTRACTOR'S PROPERTY.

NO.	2
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Also Available on Aperture Card

— W —	WATER LINE
— G —	GAS LINE
— GM —	GAS MAIN
— S —	SEWER LINE
— SM —	SEWER MAIN
— STM —	STORM SEWER
— E —	ELECTRICAL LINE
— T —	TELEPHONE LINE
— TV —	CABLE TV
— — —	PROPERTY LINE
— X — X — X — X —	FENCE LINE
⊙ G, W or E	METER
⊙ G or W	VALVE
○	PROPERTY PIN
●	POWER POLE

NOTES:

1. THE LATEST REVISION OF THE FOLLOWING TECHNICAL SPECIFICATIONS APPLY TO THE REMEDIAL ACTION WORK REQUIRED FOR PROPERTY NO. RF-493

SECTION 02110
CLEARING AND GRUBBING

SECTION 02130
CONTAMINATED MATERIAL
REMOVAL

SECTION 02200
EXCAVATION AND BACKFILL

SECTION 02480
LANDSCAPING

2. UTILITY LOCATIONS ARE FOR REFERENCE ONLY. SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ACTUAL LOCATIONS OF UTILITIES PRIOR TO START OF CONSTRUCTION.

3. THE EXCAVATION LIMITS AND DEPTHS ARE BASED ON A LIMITED NUMBER OF BORINGS TAKEN DURING THE RADIOLOGICAL SURVEYS OF THIS PROPERTY. ADDITIONAL RADIOLOGICAL SURVEYS PERFORMED DURING REMEDIAL ACTION MAY REQUIRE MORE OR LESS EXCAVATION TO BE TAKEN FROM THE DESIGNATED AREAS. ALL CHANGES TO THE LIMITS AND DEPTHS OF EXCAVATION SHOWN ON THE DESIGN DRAWING SHALL BE AS DIRECTED BY THE CONTRACTOR'S REPRESENTATIVE.

4. USE CAUTION WHEN EXCAVATING AROUND
BURIED TELEPHONE LINE NEAR THE EDGE
OF U.S. HIGHWAY 6 & 24 AND THE
COUNTY ROAD ON THE SOUTH AND WEST
BORDERS OF THE PROPERTY.
APPROXIMATE LOCATION OF TELEPHONE
LINE IS ONE TO THREE FEET OFF THE
EDGE OF PAVEMENT AND IS SIX INCHES
OR LESS UNDER THE SURFACE. ANY DAMAGE
DONE TO THE TELEPHONE LINE WILL BE THE
RESPONSIBILITY OF THE SUBCONTRACTOR.

5. SUBCONTRACTOR SHALL SUBMIT METHOD OF PERFORMING REMEDIAL ACTION ON STEEP SLOPE OF BLUFF TO CONTRACTOR'S REPRESENTATIVE FOR REVIEW PRIOR TO START OF WORK.

6. REMOVE AND DISPOSE OF CONTAMINATED BORROW SITE STOCKPILE AS DIRECTED BY CONTRACTOR'S REPRESENTATIVE. AFTER REMOVAL OF THE CONTAMINATED STOCKPILE, EXCAVATE PORTIONS OF AREA "A" AND AREA "A-2" UNDER FORMER CONTAMINATED STOCKPILE TO A DEPTH OF 6 INCHES AND 12 INCHES RESPECTIVELY. (SEE NOTE 7.)

RF-430
(ADJACENT PROPERTY)

7. WORK THIS NOTE WITH NOTE (6.)
LIMITS INDICATED ON THIS DRAWING
TO THE FOLLOWING (AVERAGE) DEPTHS:

LOCATION	DEPTH
AREA "A"	6 INCHES
AREA "A-1"	22 INCHES
AREA "A-2"	59 INCHES
AREA "A-3"	48 INCHES
AREA "A-4"	6 INCHES
AREA "A-5"	23 INCHES
AREA "A-6"	78 INCHES
AREA "J"	45 INCHES

CONTRACTOR'S REPRESENTATIVE TO RESURVEY EXCAVATED AREAS PRIOR TO BACKFILLING. IF ADDITIONAL CONTAMINATION IS FOUND, REMOVE IN 6 INCH INCREMENTS AS DIRECTED BY THE CONTRACTOR'S REPRESENTATIVE.

8. CONTRACTOR'S REPRESENTATIVE TO PERFORM RADIOLOGICAL SURVEY OF THE BORROW SITE AND NON-EXCAVATED PORTIONS OF THE DRY PONDS.
9. INSTALL EROSION CONTROL MATTING ON STEEP SLOPE OF BLUFF AS DIRECTED BY THE CONTRACTOR'S REPRESENTATIVE.
10. BACKFILL EXCAVATED DIKE AREAS WITH A LEAN SILTY CLAY MATERIAL HAVING GREATER THAN 10% PASSING THE NUMBER 10 SIEVE OR CONTRACTOR'S REPRESENTATIVE APPROVED EQUAL, COMPACTED TO 95% DIKE DIMENSIONS AND ELEVATIONS TO MATCH ORIGINAL. BACKFILL REMAINING EXCAVATED AREAS WITH COMPACTED COMMON FILL AND GRADE TO MATCH ORIGINAL CONTOURS AND ELEVATIONS. TOP ALL DISTURBED AREAS WITH SEED, MULCH AND FERTILIZER.
11. SUBCONTRACTOR SHALL COORDINATE REMEDIAL ACTION INVOLVING THE DIKE OF THE DRY PONDS WITH THE CONTRACTOR'S REPRESENTATIVE AND THE OWNER'S REPRESENTATIVE SO THAT THE DISRUPTION TO THE FUNCTIONABILITY OF THE DRY PONDS IS KEPT TO A MINIMUM AT ALL TIMES DURING REMEDIAL ACTION. CONSTRUCTION METHODS TO EXPEDITE THE WORK REQUIRED FOR REMEDIAL ACTION INVOLVING THE DIKE SHALL BE EMPLOYED.

9611070079-03

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

EXCAVATION AND RESTORATION PLAN

RF-493

RIFLE, COLORADO

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

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NAME



MORRISON KNUDSEN

DE-AC04-83AL18796

DRAWING NO. RF-493-020

AS-BUILT DRAWING

AS-BUILT DRAWING

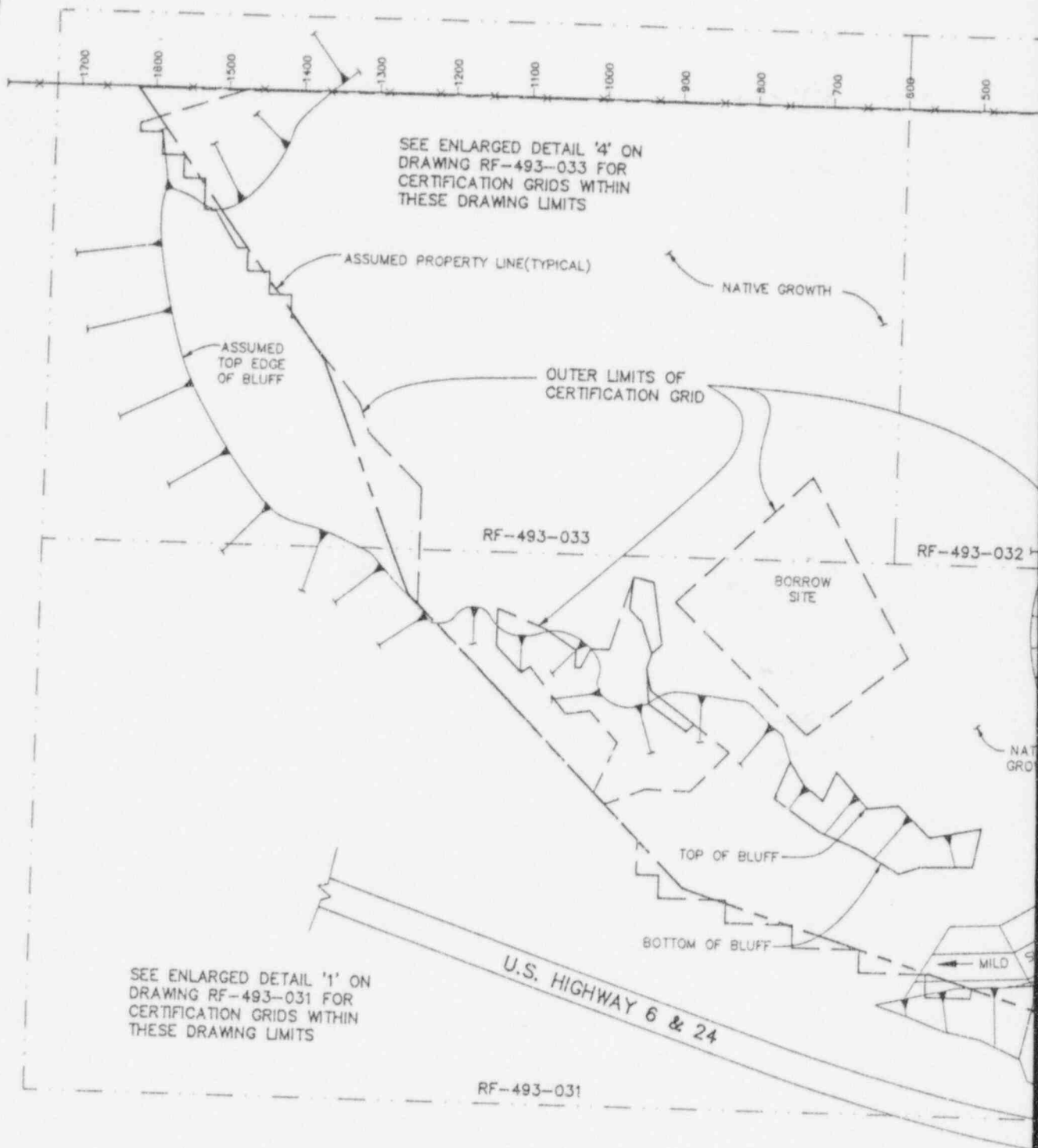
DRAWING REPLOTED

LAST REVISION NO. 1 DATED 09.11.93

REVISIONS

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SEE ENLARGED DETAIL '1' ON
DRAWING RF-493-031 FOR
CERTIFICATION GRIDS WITHIN
THESE DRAWING LIMITS

SEE ENLARGED DETAIL '4' ON
DRAWING RF-493-033 FOR
CERTIFICATION GRIDS WITHIN
THESE DRAWING LIMITS

ASSUMED PROPERTY LINE(TYPICAL)

NATIVE GROWTH

OUTER LIMITS OF
CERTIFICATION GRID

RF-493-033

RF-493-032

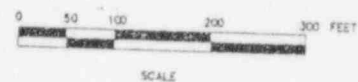
BORROW
SITE- NAT
GRO

TOP OF BLUFF

BOTTOM OF BLUFF-

U.S. HIGHWAY 6 & 24

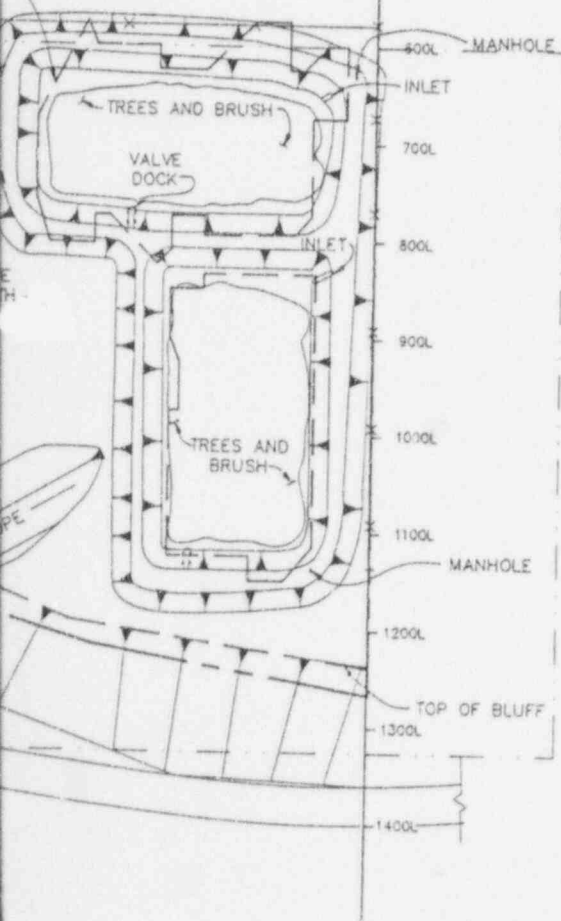
RF-493-031



A	45
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Also Available on
Aperture Card

RF-430
(ADJACENT PROPERTY)



REFERENCE DRAWING LIMITS

RF-493-031

REFERENCE DRAWING NO.

9611070079-04

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

CERTIFICATION RADIOLOGICAL PLAN

RF-493

RIFLE, COLORADO

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT					
APPROVED	DATE	DOE PROJECT MANAGER	DATE	DOE PROJECT ENGINEER	DATE
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MORRISON KNUDSEN

DE-AC04-83AL18796

DRAWING NO. RF-493-030

REV. A

6	ISSUE FOR CERTIFICATION SURVEY
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JWH-1

REVISIONS

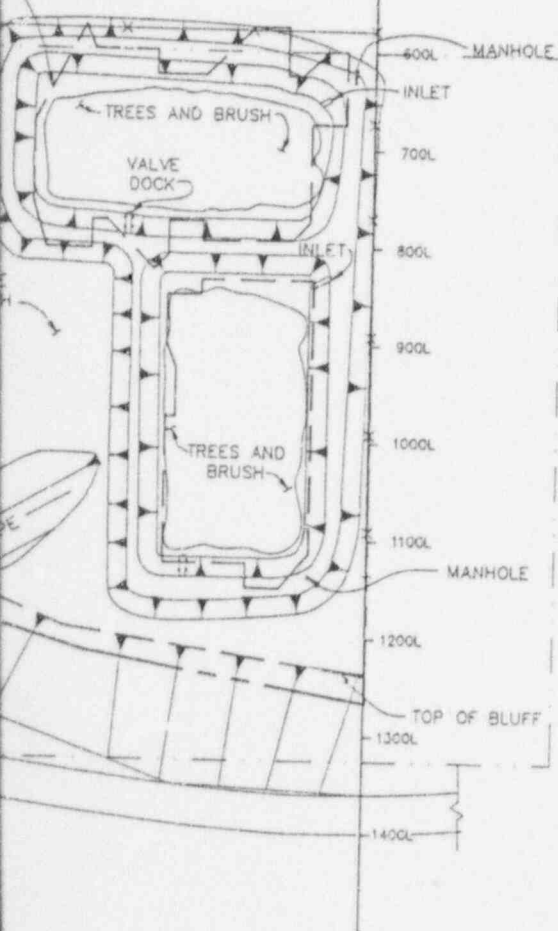
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ANSTEC APERTURE CARD

Also Available on
Aperture Card

SEE ENLARGED DETAIL '3' ON
DRAWING RF-493-032 FOR
CERTIFICATION GRIDS WITHIN
THESE DRAWING LIMITS

RF-430
(ADJACENT PROPERTY)



REFERENCE DRAWING LIMITS

RF-493-031

REFERENCE DRAWING NO.

9611070079-04

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

DESIGNED/DRAWN
JWH

CHECKED

REVIEWED

RECOMMENDED

APPROVED

NR

DATE

DOE PROJECT MANAGER

NR

DATE

DOE PROJECT ENGINEER

NR

DATE

RF-493

RIFLE, COLORADO

URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

PROJECT NO.

DE-AC04-83AL18796

DRAWING NO.

RF-493-030

REV. A



MORRISON KNUDSEN

ISSUE FOR CERTIFICATION SURVEY

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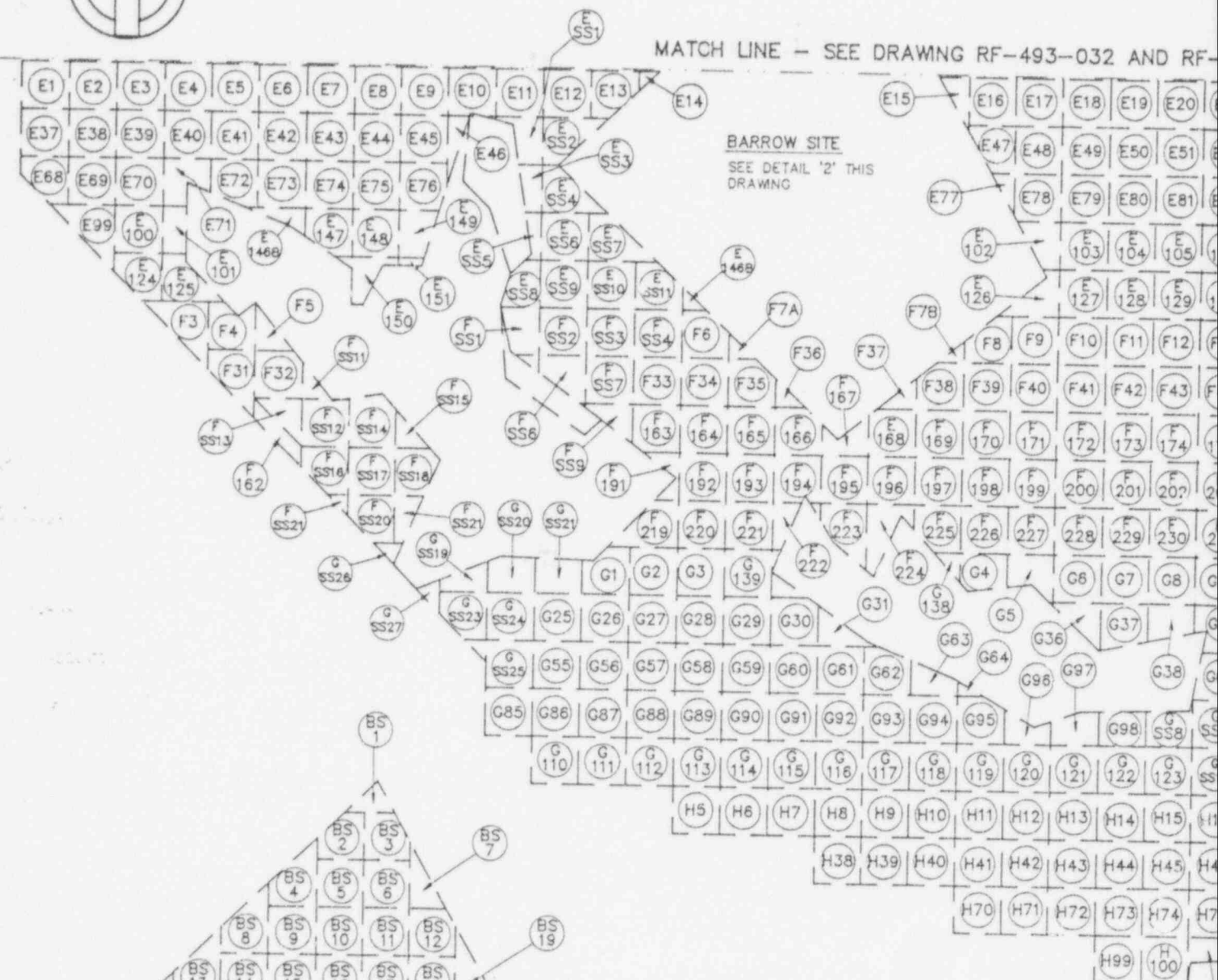
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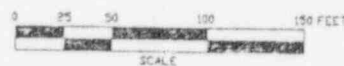


MATCH LINE -- SEE DRAWING RF-493-032 AND RF-

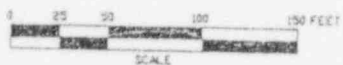
BARROW SITE
SEE DETAIL '2' THIS
DRAWING



ENLARGED DETAIL '1'



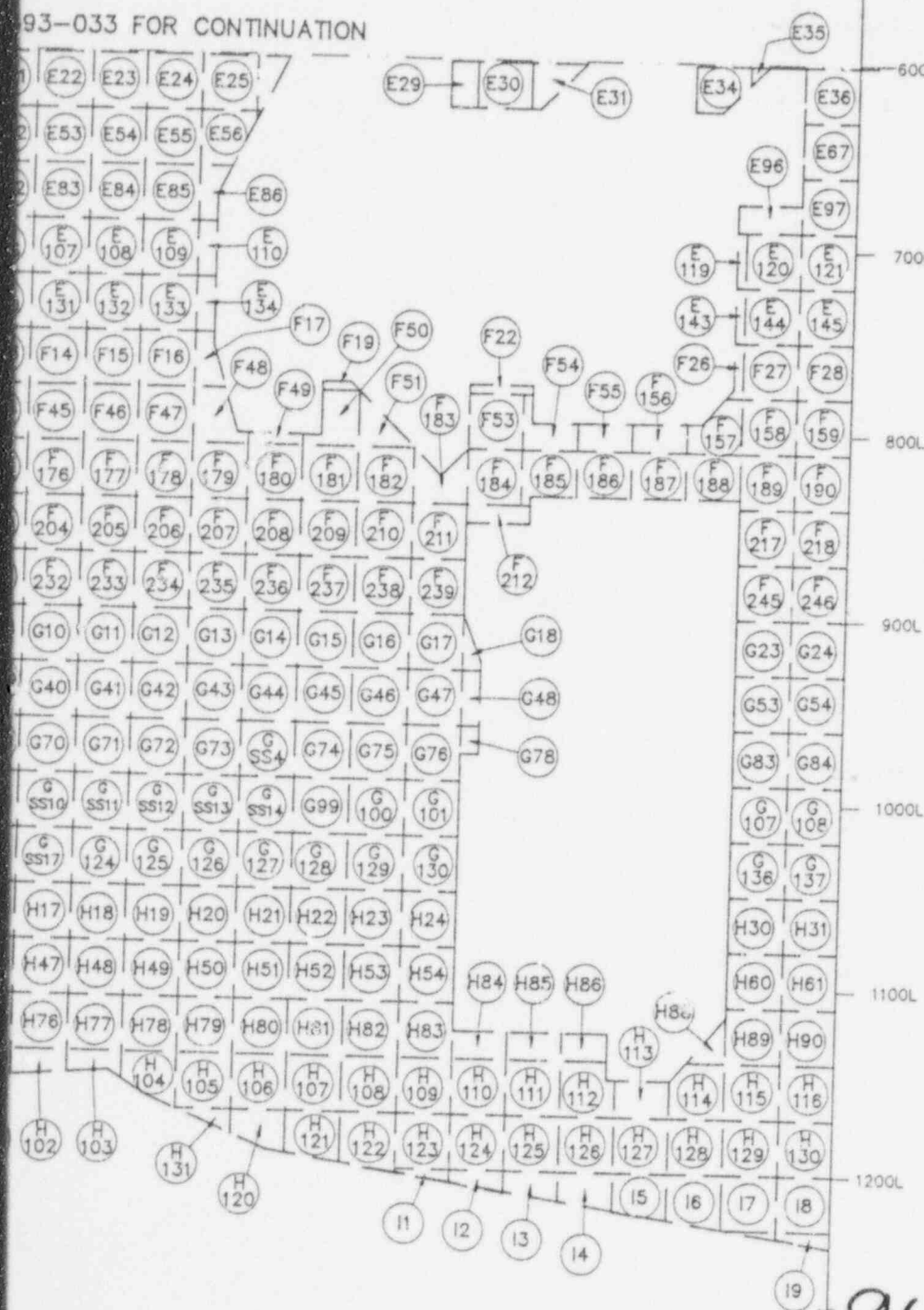
DETAIL '2'



Also Available on
Aperture Card

NOTES:

1. SEE DRAWING RF-493-030 FOR LOCATION OF CERTIFICATION GRIDS.
2. SEE DRAWING RF-493-037 AND RF-493-038 FOR VERIFICATION SOIL SAMPLE NUMBERS.



CERTIFICATION RADIOLOGICAL PLAN
RF-493

RIFLE, COLORADO
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

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MORRISON KNUDSEN

PROJECT NO. _____

DE-AC04-83AL18796

DRAWING NO.

RF--493--031

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ISSUE FOR CERTIFICATION SURVEY

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APPENDIX

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MATCH LINE - SEE DRAWING RF-493-031 FOR CONTINUATION

A horizontal scale bar with markings at 0, 25, 50, 100, and 150 feet. The bar is divided into segments, with the first segment (0-25) and the last segment (100-150) shaded. The word "SCALE" is centered below the bar.

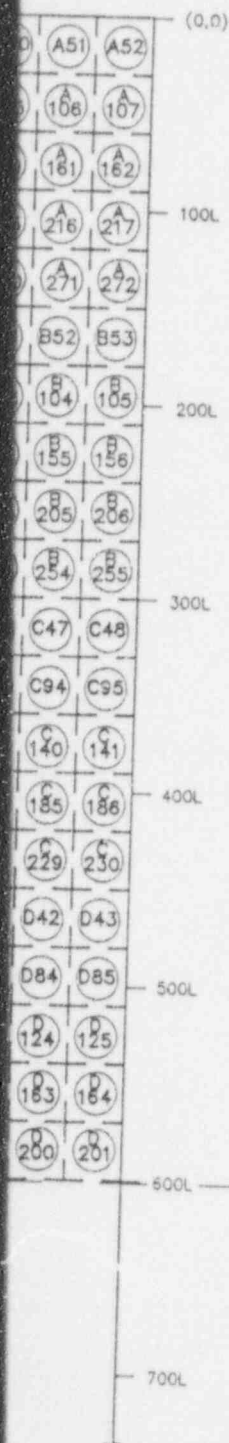
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NO.	DA

ANSTEC APERTURE CARD

Also Available on
Aperture Card

NOTES:

1. SEE DRAWING RF-493-030 FOR LOCATION OF CERTIFICATION GRIDS.
2. SEE DRAWING RF-493-035, RF-493-036 AND RF-493-037 FOR VERIFICATION SOIL SAMPLE NUMBERS.



9611070079-06

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

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RECOMMENDED

CERTIFICATION RADIOLOGICAL PLAN
RF-493

RIFLE, COLORADO
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT
APPROVED NR DATE DOE PROJECT MANAGER NR DATE DOE PROJECT ENGINEER NR DATE

MORRISON KNUDSEN

PROJECT NO.
DE-AC04-83AL18796

ISSUE FOR CERTIFICATION SURVEY

REVISIONS

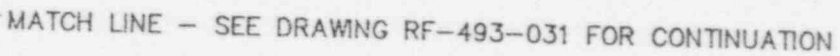
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DRAWING NO.
RF-493-032

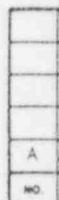
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**Also Available on
Aperture Card**

1. SEE DRAWING RF-493-030 FOR LOCATION OF CERTIFICATION GRIDS.
2. SEE DRAWING RF-493-035, RF-493-036 AND RF-493-037 FOR VERIFICATION SOIL SAMPLE NUMBERS.





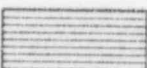
U. S. DEPARTMENT OF ENERGY									
ALBUQUERQUE, NEW MEXICO									
DESIGNED BY		JWH							
CHECKED									
REVIEWED									
RECOMMENDED									
APPROVED		NR							
DATE		PROJECT MANAGER		DATE		DATE		DATE	
NR		NR		NR		NR		NR	
PROJECT NO. DE-AC04-83AL18796									
DRAWING NO. RF-493-033									
REV. A									



LEGEND

- 11 BOREHOLE DESIGNATION
- 1588 SOIL SAMPLE DESIGNATION

ESTIMATED DEPTH OF CONTAMINATION

-  6 INCHES
-  18 INCHES
-  42 INCHES

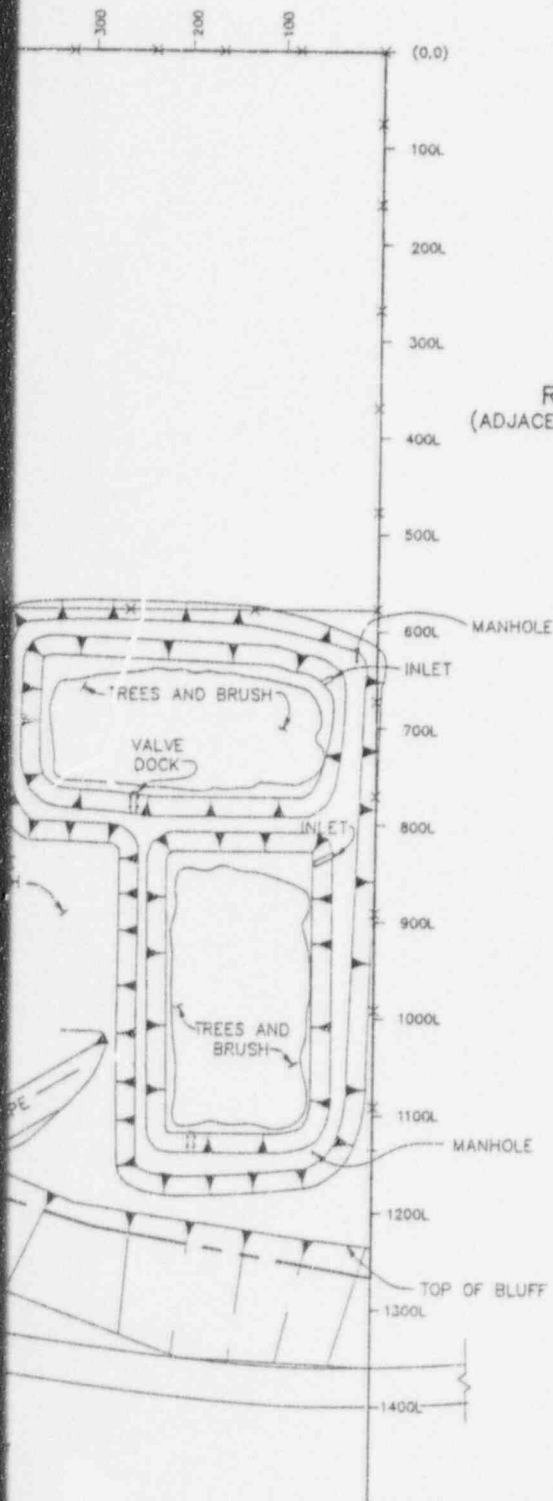
**ANSTEC
APERTURE
CARD**

Also Available on
Aperture Card

RF-430
(ADJACENT PROPERTY)

NOTES:

- SUPPLEMENTAL STANDARDS IN ACCORDANCE WITH 40 CFR 192.21 (a),(b), AND (c) SHALL APPLY TO LOW LEVEL RADIOACTIVE MATERIAL TO REMAIN IN PLACE. APPROXIMATELY 587.6cy COVERING ²¹³²sy REMAINS IN PLACE. VOLUME OF RADIOLOGICAL MATERIAL REMAIN IN PLACE IS BASED ON LIMITED RADIOLOGICAL DATA DO TO THE STEEPNESS OF SLOPE.



9611070079-08

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

DESIGNED/DRAWN
JWH
CHECKED
REVIEWED
RECOMMENDED

SUPPLEMENTAL STANDARDS
SURVEY DATA
RF-493

RIFLE, COLORADO
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

APPROVED
NR

DATE

DOE PROJECT MANAGER

DATE

DOE PROJECT ENGINEER

DATE

NR

NR

PROJECT NO.



MORRISON KNUDSEN

DE-AC04-83AL18796

DRAWING NO.

RF-493-034

REV A

ISSUE FOR SUPPLEMENTAL STANDARDS

JWH
DRAWN BY
CHECKED BY
APPROVED LDE
APPROVED DH
PROJ ENG
APPROVED DOE

REVISIONS

VERIFICATION:

VERIFICATION	LOCATION	SOIL
A	215	
A	216	
A	217	
A	221	
A	222	
A	223	
A	224	
A	225	
A	226	
A	227	
A	228	
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A	270	
A	271	
A	272	
B	3	
B	4	
B	5	
B	6	
B	7	
B	8	
B	9	

SOIL SAMPLES			VERIFICATION SOIL SAMPLES			VERIFICATION SOIL SAMPLES			VERIFICATION SOIL SAMPLES			
SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER
(RFL-SV)		(RFL-SV)		(RFL-SV)		(RFL-SV)		(RFL-SV)		(RFL-SV)		(RFL-SV)
3627	B 10	4355	B 75	4214	B 134	3808	B 134	3808	B 134	3808	B 134	3808
3628	B 11	4356	B 76	4215	B 135	3809	B 135	3809	B 135	3809	B 135	3809
3629	B 12	4569	B 77	4216	B 136	3806	B 136	3806	B 136	3806	B 136	3806
4561	B 13	4570	B 78	4217	B 137	3732	B 137	3732	B 137	3732	B 137	3732
4562	B 14	4571	B 79	4218	B 138	3733	B 138	3733	B 138	3733	B 138	3733
4805	B 15	4398	B 80	4315	B 139	3734	B 139	3734	B 139	3734	B 139	3734
4806	B 16	4303	B 81	4316	B 140	3595	B 140	3595	B 140	3595	B 140	3595
4563	B 17	4304	B 82	4317	B 141	3596	B 141	3596	B 141	3596	B 141	3596
4349	B 18	4305	B 83	4055	B 142	3597	B 142	3597	B 142	3597	B 142	3597
4350	B 19	4306	B 84	4055	B 143	3598	B 143	3598	B 143	3598	B 143	3598
4351	B 20	4307	B 85	3803	B 144	3543	B 144	3543	B 144	3543	B 144	3543
4352	B 21	4203	B 86	3729	B 145	3544	B 145	3544	B 145	3544	B 145	3544
4567	B 22	4204	B 87	3730	B 146	3502	B 146	3502	B 146	3502	B 146	3502
4568	B 23	4205	B 88	3731	B 147	3503	B 147	3503	B 147	3503	B 147	3503
4396	B 24	4206	B 89	3591	B 148	3504	B 148	3504	B 148	3504	B 148	3504
4397	B 25	4207	B 90	3592	B 149	3505	B 149	3505	B 149	3505	B 149	3505
4194	B 26	4208	B 91	3593	B 150	3506	B 150	3506	B 150	3506	B 150	3506
4299	B 27	4209	B 92	3594	B 151	3507	B 151	3507	B 151	3507	B 151	3507
4300	B 28	4210	B 93	3541	B 152	3508	B 152	3508	B 152	3508	B 152	3508
4301	B 29	4308	B 94	3542	B 153	3509	B 153	3509	B 153	3509	B 153	3509
4302	B 30	4309	B 95	3492	B 154	3510	B 154	3510	B 154	3510	B 154	3510
4195	B 31	4211	B 96	3493	B 155	3511	B 155	3511	B 155	3511	B 155	3511
3961	B 32	4051	B 97	3493	B 156	3512	B 156	3512	B 156	3512	B 156	3512
3962	B 33	4052	B 98	3494	B 159	4640	B 159	4640	B 159	4640	B 159	4640
3963	B 34	4054	B 99	3495	B 160	4364	B 160	4364	B 160	4364	B 160	4364
3964	B 35	3727	B 100	3496	B 161	4365	B 161	4365	B 161	4365	B 161	4365
4196	B 36	3728	B 101	3497	B 162	4366	B 162	4366	B 162	4366	B 162	4366
4197	B 37	3587	B 102	3498	B 163	4580	B 163	4580	B 163	4580	B 163	4580
4198	B 38	3588	B 103	3499	B 164	4581	B 164	4581	B 164	4581	B 164	4581
4199	B 39	3566	B 104	3500	B 165	4582	B 165	4582	B 165	4582	B 165	4582
4200	B 40	3567	B 105	3501	B 166	4583	B 166	4583	B 166	4583	B 166	4583
4277	B 41	3539	B 108	4638	B 167	4402	B 167	4402	B 167	4402	B 167	4402
4276	B 42	3540	B 109	4639	B 168	4403	B 168	4403	B 168	4403	B 168	4403
4201	B 43	3486	B 110	4361	B 169	4326	B 169	4326	B 169	4326	B 169	4326
4202	B 44	3487	B 111	4362	B 170	4327	B 170	4327	B 170	4327	B 170	4327
4298	B 45	3488	B 112	4363	B 171	4328	B 171	4328	B 171	4328	B 171	4328
3726	B 46	3589	B 113	4576	B 172	4439	B 172	4439	B 172	4439	B 172	4439
3582	B 47	3590	B 114	4577	B 173	4440	B 173	4440	B 173	4440	B 173	4440
3583	B 48	3489	B 115	4578	B 174	4224	B 174	4224	B 174	4224	B 174	4224
3564	B 49	3490	B 116	4579	B 175	4225	B 175	4225	B 175	4225	B 175	4225
3565	B 50	3637	B 117	4400	B 176	4226	B 176	4226	B 176	4226	B 176	4226
3537	B 51	3638	B 118	4401	B 177	4227	B 177	4227	B 177	4227	B 177	4227
3533	B 52	3639	B 119	4318	B 178	4441	B 178	4441	B 178	4441	B 178	4441
3485	B 53	3640	B 120	4319	B 179	4442	B 179	4442	B 179	4442	B 179	4442
3484	B 56	3534	B 121	4320	B 180	4329	B 180	4329	B 180	4329	B 180	4329
3584	B 57	4635	B 122	4321	B 181	4057	B 181	4057	B 181	4057	B 181	4057
3585	B 58	4636	B 123	4322	B 182	4058	B 182	4058	B 182	4058	B 182	4058
3586	B 59	4357	B 124	4219	B 183	3810	B 183	3810	B 183	3810	B 183	3810
3630	B 60	4358	B 125	4221	B 184	3811	B 184	3811	B 184	3811	B 184	3811
3631	B 61	4359	B 126	4220	B 185	3812	B 185	3812	B 185	3812	B 185	3812
3633	B 62	4360	B 127	4222	B 186	3813	B 186	3813	B 186	3813	B 186	3813
3634	B 63	4572	B 128	4223	B 187	3745	B 187	3745	B 187	3745	B 187	3745
3635	B 64	4573	B 129	4223	B 188	3746	B 188	3746	B 188	3746	B 188	3746
3636	B 65	4574	B 130	4324	B 189	3747	B 189	3747	B 189	3747	B 189	3747
3564	B 66	4575	B 131	4325								
3665	B 67	4399	B 132	4056								
3808	B 68	4310	B 133	3807								
3807	B 69	4311										
3666	B 70	4312										
3553	B 71	4313										
3534	B 72	4314										
	B 73	4212										
	B 74	4213										

ANSTEC
APERTURE
CARD

Also Available on
Aperture Card

NOTES:

1. SEE DRAWING RF-493-032 AND
RF-493-033 FOR GRID LOCATION.

U. S. DEPARTMENT OF ENERGY

ALBUQUERQUE, NEW MEXICO

DESIGNED/DRAWN
JWH

CHECKED

CERTIFICATION RADIOLOGICAL PLAN
RF-493

9611070079.09

**ANSTEC
APERTURE
CARD**

Also Available on
Aperture Card

NOTES:

- SEE DRAWING RF-493-032 AND RF-493-033 FOR GRID LOCATION.

9611070079-09

U. S. DEPARTMENT OF ENERGY											
ALBUQUERQUE, NEW MEXICO											
DESIGNED		JWH		CERTIFICATION RADIOLOGICAL PLAN RF-493							
CHECKED											
REVIEWED											
RECOMMENDED											
APPROVED		NR		DATE		DOE PROJECT MANAGER		DATE		DOE PROJECT ENGINEER	
						NR				NR	
PROJECT NO.				DE-AC04-83AL18796							
DRAWING NO.				RF-493-035							
REV.				A							

ISSUE FOR CERTIFICATION SURVEY		JWH									
REVISIONS		BY		CHECKED		APPROVAL		APPROVAL		APPROVAL	

VERIFICATION

LOCATION	SOURCE
----------	--------

C 148
C 149
C 150
C 151
C 152
C 153
C 154
C 155
C 156
C 157
C 158
C 159
C 159
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C 161
C 162
C 163
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C 209

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OIL SAMPLES		VERIFICATION SOIL SAMPLES		VERIFICATION SOIL SAMPLES		VERIFICATION SOIL SAMPLES	
SAMPLE NUMBER		LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER
(RFL-SV)			(RFL-SV)		(RFL-SV)		(RFL-SV)
4425		C 210	3914	D 42	3650	D 98	4137
4458		C 211	3792	D 43	3651	D 99	4138
4459		C 212	3793	D 44	4394	D 100	4139
4510		C 213	3794	D 45	4395	D 101	4078
4511		C 214	3795	D 46	4494	D 102A	4079
4512		C 215	3796	D 47	4495	D 102B	4080
4513		C 216	3797	D 48	4496	D 103	4022
4514		C 217	3798	D 49	4497	D 104	4023
4515		C 218	3694	D 50	4829	D 105	4024
4524		C 219	3695	D 51	5090	D 106	4025
5106		C 220	3696	D 52	5091	D 107	4026
5107		C 221	3697	D 53	4830	D 108	4027
5108		C 222	3698	D 54	4831	D 109	4028
5109		C 223	3694	D 55	4832	D 110	4029
5110		C 224	3969	D 56	4132	D 111	4030
5111		C 225	3970	D 57	4133	D 112	4031
5112		C 226	3971	D 58	4134	D 113	3711
5113		C 227	3646	D 59	4135	D 114	3712
4823		C 228	3645	D 60	4075	D 115	3713
4824		C 229	3679	D 61	4076	D 116	3714
3785		C 230	3680	D 62	4077	D 117	3715
3786		D 1	4409	D 63	3917	D 118	3716
3787		D 2	4410	D 64	3918	D 119	3976
3788		D 3	4411	D 65	3919	D 120	3977
3789		D 4	4490	D 66	3920	D 121	3657
3790		D 5	4492	D 67	3921	D 122	3658
3791		D 6	4491	D 68	3922	D 123	3659
3688		D 7	4493	D 69	3923	D 124	3660
3689		D 8	4713	D 70	3924	D 125	3661
3690		D 9	5084	D 71	3925	D 126	4701
3691		D 10	5085	D 72	3926	D 127	4702
3692		D 11	5086	D 73	3705	D 128	4703
3693		D 12	5087	D 74	3706	D 129	4704
3966		D 13	5088	D 75	3707	D 130	4705
3967		D 14	5089	D 76	3708	D 131	5124
4968		D 15	4827	D 77	3709	D 132	5125
3641		D 16	4828	D 78	3710	D 133	4598
3642		D 17	4130	D 79	3974	D 134	4599
3644		D 18	4131	D 80	3975	D 135	4590
3643		D 19	4072	D 81	3632	D 136	4591
4383		D 20	4073	D 82	3633	D 137	4140
4386		D 21	4074	D 83	3634	D 138	4141
4387		D 22	3915	D 84	3635	D 139	4142
4426		D 23	3916	D 85	3636	D 140	4143
4427		D 24	3799	D 202	4849	D 141	4144
4428		D 25	3800	D 86	4696	D 142	4032
4488		D 26	3801	D 87	4697	D 143	4033
4489		D 27	3402	D 88	4698	D 144	4034
4525		D 28	3803	D 89	4699	D 145	4035
4516		D 29	1780	D 90	4700	D 146	4036
4830		D 30	3804	D 91	5122	D 147	4037
4851		D 31	3700	D 92	5123	D 148	4038
5114		D 32	3701	D 93	4833	D 149	4039
5115		D 33	3702	D 94	4587		
5116		D 34	3703	D 95	4588		
5117		D 35	3704	D 96	4589		
5118		D 36	3681	D 97	4136		
5120		D 37	3972				
5121		D 38	3973				
4825		D 39	3647				
4826		D 40	3648				
4070		D 41	3649				
4071							

ANST
APERTURE
CARD

Also Available on
Aperture Card

NOTES:
1. SEE DRAWING RF-493-032 AND
RF-493-033 FOR GRID LOCATION.

9611070079-10

ISSUE FOR CERTIFICATION SURVEY		JWH																	
REVISIONS		DRAWN BY	CHECKED BY	APPROVED LDE	APPROVED OH	PROJ ENG	APPROVED DOE												

U. S. DEPARTMENT OF ENERGY ALBUQUERQUE, NEW MEXICO												
DESIGNED	DRAWN JWH			CERTIFICATION RADIOLOGICAL PLAN RF-493								
CHECKED												
REVIEWED												
RECOMMENDED												
APPROVED	NR		DATE	DOE PROJECT MANAGER	DATE	DOE PROJECT ENGINEER	DATE	PROJECT NO.				
				NR		NR		DE-ACO4-83AL18796				
				MORRISON KNUDSEN		DRAWING NO.		RF-493-036		REV.	A	

VERIFICATION S

LOCATION	SOIL
F 35	
F 36	
F 37	
F 38	
F 39	
F 40	
F 41	
F 42	
F 43	
F 44	
F 45	
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F 50	
F 51	
F 53	
F 54	
F 55	
F 156	
F 157	
F 158	
F 159	
F 162	
F SS13	
F SS12	
F SS14	
F SS15	
F SS9	
F SS10	
F 163	
F 164	
F 165	
F 166	
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F 186	
F 187	
F 188	
F 189	
F 190	
F SS16	
F SS16	
F SS17	
F SS18	

L SAMPLES			VERIFICATION SOIL SAMPLES			VERIFICATION SOIL SAMPLES			VERIFICATION SOIL SAMPLES		
AMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	LOCATION	SOIL SAMPLE NUMBER	
FL-SV)		(RFL-SV)		(RFL-SV)						(RFL-SV)	
4764	F 191	4768	G 7	4683	G 71	4631					
4765	F 192	4769	G 8	4684	G 72	4632					
4473	F 193	4770	G 9	4685	G 73	4633					
	F 194	4771	G 10	4686	G 553	4615					
4475	F 195	4663	G 11	4622	G 554	4616					
4474	F 196	4717	G 12	4623	G 555	4617					
4476	F 197	4718	G 13	4624	G 74	4068					
4477	F 198	4664	G 14	4625	G 75	4042					
4478	F 199	4665	G 15	4626	G 76	4043					
4129	F 200	4666	G 16	4069	G 78	4067					
4479	F 201	4667	G 17	4069	G 83	4164					
4480	F 202	4786	G 18	4064	G 84	4165					
4996	F 203	4787	G 23	4160	G 85	5069					
5014	F 204	4668	G 24	4161	G 86	4902					
5015	F 205	4669	G 5527	5070	G 87	4565					
5046	F 206	4670	G 5527	4904	G 88	4866					
4998	F 207	4114	G 5523	4894	G 89	4867					
5074	F 208	4115	G 5524	4893	G 90	4868					
5077	F 209	4116	G 25	4905	G 91	4869					
5037	F 210	4117	G 26	4906	G 92	4749					
5043	F 211	4118	G 27	4779	G 93	4750					
5058	F 212	5082	G 28	4780	G 94	4751					
5075	F 217	4435	G 29	4781	G 95	4752					
5021	F 218	4436	G 30	4783	G 96	4753					
5056	F 5519	5065	G 31	5073	G 97	5138					
5068	F 5520	4888	G 35	4687	G 98	3993					
4881	F 5521	4887	G 36	4688	G 537	5139					
4860	F 219	4772	G 37	4689	G 558	4852					
4882	F 220	4773	G 38	4690	G 559	4853					
4883	F 221	4774	G 39	4691	G 5510	4854					
4793	F 222	5066	G 40	4692	G 5511	4618					
4794	F 223	4671	G 41	4627	G 5512	4619					
4798	F 224	4672	G 42	4628	G 5513	4620					
4799	F 225	4673	G 43	4629	G 5514	4621					
4766	F 226	4674	G 44	4630	G 99	5994					
4767	F 227	4675	G 551	4613	G 100	4044					
4714	F 228	4676	G 552	4614	G 101	4045					
4481	F 229	4677	G 45	4059	G 107	4166					
4482	F 230	4788	G 46	4066	G 108	4167					
4493	F 231	4789	G 47	4063	G 110	5071					
4484	F 232	4678	G 48	4060	G 111	4901					
4485	F 233	4679	G 53	4162	G 112	4870					
4486	F 234	4680	G 54	4163	G 113	4871					
4487	F 235	4119	G 5525	4895	G 114	4872					
4715	F 236	4120	G 55	4897	G 115	4873					
4716	F 237	4121	G 56	4898	G 116	4754					
5016	F 238	4062	G 57	4899	G 117	4755					
5017	F 239	4061	G 58	4900	G 118	4756					
5018	F 245	4437	G 59	4784							
5019	F 246	4438	G 60	4785							
5020	G 5526	4896	G 61	4743							
5079	G 5519	4890	G 62	4744							
5080	G 5520	4889	G 63	4745							
5081	G 5521	4892	G 64	4746							
5076	G 5522	4891	G 68	4693							
5078	G 1	4776	G 69	4694							
5062	G 2	4777	G 70	4695							
5083	G 3	4778									
5054	G 139	4782									
5057	G 138	4720									
5064	G 4	4719									
4884	G 5	4681									
4885	G 6	4682									
4886											

ANSTEC
APERTURE
CARD

Also Available on
Aperture Card

NOTES:

1. SEE DRAWING RF-493-031, RF-493-032,
AND RF-493-033 FOR GRID LOCATION.

U. S. DEPARTMENT OF ENERGY
ALBUQUERQUE, NEW MEXICO

DESIGNED
JWH

CHECKED

REVIEWED

RECOMMENDED

CERTIFICATION RADIOLOGICAL PLAN
RF-493

RIFLE, COLORADO
URANIUM MILL TAILINGS REMEDIAL ACTION PROJECT

APPROVED
NR

DATE

DOE PROJECT MANAGER
NR

DATE

DOE PROJECT ENGINEER
NR

DATE

PROJECT NO.
DE-AC04-83AL18796

ISSUE FOR CERTIFICATION SURVEY

JWH

MORRISON KNUDSEN

RF-493-037

REVISIONS

DATE

BY

DESCRIPTION

APPROVED

DATE

BY

DESCRIPTION

9611070079-11

VERIFICATION SOIL SAMPLES
LOCATION SOIL SAMPLE NUMBER
(RFL-SV)

G 119	4757
G 120	4758
G 121	4759
G 122	4863
G 123	4862
G 3316	4855
G 3317	4856
G 3318	4790
G 124	3995
G 125	3996
G 126	3997
G 127	3998
G 128	3999
G 129	4046
G 130	4047
G 136	4168
G 137	4169
H 3	4875
H 6	4876
H 7	4877
H 8	4722
H 9	4724
H 10	4721
H 11	4723
H 12	4725
H 13	4726
H 14	4861
H 15	4864
H 16	4600
H 17	4601
H 18	4000
H 19	4001
H 20	4002
H 21	4003
H 22	4004
H 23	4048
H 24	4049
H 30	4170
H 31	4171
H 38	4728
H 39	4729
H 40	4730
H 41	4731
H 42	4732
H 43	4734
H 44	4733
H 45	4602
H 46	4603
H 47	4604
H 48	4005
H 49	4006
H 50	4007
H 51	4008
H 52	4009
H 53	4050
H 54	4041
H 60	4172
H 61	4173

VERIFICATION SOIL SAMPLES
LOCATION SOIL SAMPLE NUMBER
(RFL-SV)

H 70	4738
H 71	4748
H 72	4739
H 73	4605
H 74	4606
H 75	4607
H 76	4608
H 77	4011
H 78	4010
H 79	4012
H 80	4013
H 81	4014
H 82	4429
H 83	4430
H 84	4081
H 85	4082
H 86	4083
H 88	4174
H 89	4175
H 90	4176
H 99	4609
H 100	4610
H 101	4611
H 102	4612
H 103	4015
H 104	4016
H 105	4017
H 106	4018
H 107	3965
H 108	4431
H 109	4085
H 110	4086
H 111	4087
H 112	4088
H 113	4084
H 114	4432
H 115	4433
H 116	4434
H 131	4848
H 120	4019
H 121	4020
H 122	4021
H 123	4089
H 124	4090
H 125	4091
H 126	4092
H 127	3989
H 128	3990
H 129	3991
H 130	3992
I 1	3980
I 2	3981
I 3	3982
I 4	3983
I 5	3984
I 6	3985
I 7	3986
I 8	3987
I 9	3988

VERIFICATION SOIL SAMPLES
LOCATION SOIL SAMPLE NUMBER
(RFL-SV)

BS 1	4923
BS 2	4924
BS 3	4925
BS 4	4926
BS 5	4927
BS 6	4928
BS 7	4929
BS 8	4930
BS 9	4931
BS 10	4932
BS 11	4933
BS 12	4934
BS 13	4935
BS 14	4936
BS 15	4937
BS 16	4938
BS 17	4939
BS 18	4940
BS 19	4941
BS 20	4942
BS 21	4943
BS 22	4944
BS 23	4945
BS 24	4946
BS 25	4947
BS 26	4948
BS 27	4949
BS 28	4950
BS 29	4951
BS 30	4952
BS 31	4953
BS 32	4954
BS 33	4955
BS 34	4956
BS 35	4957
BS 36	4958
BS 37	4959
BS 38	4960
BS 39	4961
BS 40	4962
BS 41	4963
BS 42	4964
BS 43	4965
BS 44	4966
BS 45	4967
BS 46	4968
BS 47	4969
BS 48	4970
BS 49	4971
BS 50	4972
BS 51	4973
BS 52	4974
BS 53	4975
BS 54	4976
BS 55	4977
BS 56	4978
BS 57	4979
BS 58	4980
BS 59	4981
BS 60	4982
BS 61	4983
BS 62	4984

**Also Available on
Aperture Card**

9611070079-12

1. SEE DRAWING RF-493-031
FOR GRID LOCATION.

								U. S. DEPARTMENT OF ENERGY											
								ALBUQUERQUE, NEW MEXICO											
								DESIGNED <u>JWH</u>		CERTIFICATION RADIOLOGICAL PLAN RF-493									
								CHECKED											
								REVIEWED											
								RECOMMENDED											
								APPROVED NR		DATE		DOE PROJECT MANAGER NR		DATE		DOE PROJECT ENGINEER NR		DATE	
ISSUE FOR CERTIFICATION SURVEY								JWH											
REVISIONS								DRAWN BY		CHECKED BY		APPROVAL DATE		APPROVAL DATE		PROJECT NO.		DE-AC04-83AL18796	
								MORRISON KNUDSEN								DRAWING NO RF-493-038		REV	

APPENDIX A
RADIOLOGICAL SURVEY DATA

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 1	1530,18L; 1530,30L; 1566,30L	4800	0.5	1.3	1.2	
A 2	1500,8L; 1500,30L; 1530,30L; 1530,18L	4542	0.5	1.1	1.7	
A 3	1475,0.0L; 1470,0.0L; 1470,30L; 1500,30L; 1500,8L	4543	0.5	1.4	1.3	
A 4	1470,30L	4544	0.5	1.3	1.9	
A 5	1440,30L	4545	0.5	0.97	1.1	
A 6	1410,30L	4546	0.5	1.4	1.3	
A 7	1380,30L	4388	0.5	1.3	2	
A 8	1350,30L	4332	0.5	2.2	2.9	
A 9	1320,30L	4333	0.5	1.5	2.8	
A 10	1290,30L	4334	0.5	1.5	1.5	
A 11	1260,30L	4335	0.5	0.19	1.2	
A 12	1230,30L	4282	0.5	0.41	1.8	
A 13	1200,30L	4281	0.5	1.7	2.1	
A 14	1170,30L	4283	0.5	1.7	1.6	
A 15	1140,30L	4253	0.5	1.4	1.2	
A 16	1110,30L	4254	0.5	1.8	1.9	
A 17	1080,30L	4255	0.5	0.88	0.99	
A 18	1050,30L	4256	0.5	1.8	1.7	
A 19	1020,30L	4278	0.5	1.7	1.8	
A 20	990,30L	4177	0.5	2.2	2.6	
A 21	960,30L	4179	0.5	1.7	1.1	
A 22	930,30L	4181	0.5	1.3	1.2	
A 23	900,30L	4180	0.5	1.5	0.79	
A 24	870,30L	4178	0.5	1.8	1.4	
A 25	840,30L	3927	0.5	1.4	1.3	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 26	810,30L	3928	0.5	1.1	0.77	
A 27	780,30L	3929	0.5	1.8	2	
A 28	750,30L	3930	0.5	1.3	1.5	
A 29	720,30L	3931	0.5	1.7	0.72	
A 30	690,30L	3932	0.5	1.3	1.4	
A 31	660,30L	3933	0.5	1.7	2.1	
A 32	630,30L	4257	0.5	1.3	1.7	
A 33	600,30L	4258	0.5	1.2	1.8	
A 34	570,30L	3934	0.5	0.59	1	
A 35	540,30L	3723	0.5	1.1	1.3	
A 36	510,30L	3568	0.5	2.6	1.8	
A 37	480,30L	3569	0.5	1.3	2.2	
A 38	450,30L	3549	0.5	1.6	3.5	
A 39	420,30L	3550	0.5	1.1	2.6	
A 40	390,30L	3551	0.5	1.6	2	
A 41	360,30L	3552	0.5	-6.7	1.6	
A 42	330,30L	3479	0.5	0.75	2.8	
A 43	300,30L	3480	0.5	1.7	2.4	
A 44	270,30L	3481	0.5	1.5	2.8	
A 45	240,30L	3482	0.5	1.7	3.3	
A 46	210,30L	3483	0.5	1.8	2.3	
A 47	180,30L	3607	0.5	1.5	2.8	
A 48	150,30L	3608	0.5	1.5	2.6	
A 49	120,30L	3609	0.5	1.3	1.3	
A 50	90,30L	3610	0.5	1.1	1.9	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 51	60,30L	3611	0.5	1.4	2.5	
A 52	30,30L	3612	0.5	2	2.1	
A 53	1620,48L; 1620,60L; 1635,60L; 1625,50L	4653	0.5	1.7	1.8	
A 54	1590,38L; 1590,60L; 1620,60L; 1620,48L	4654	0.5	1.5	0.89	
A 55	1566,30L; 1560,30L; 1560,60L; 1590,60L; 1590,38L	4801	0.5	137	0.98	
A 56	1560,60L	4802	0.5	0.55	1.1	
A 57	1530,60L	4547	0.5	1.7	2.6	
A 58	1500,60L	4548	0.5	2.4	3.3	
A 59	1470,60L	4809	0.5	1.2	1.5	
A 60	1440,60L	4810	0.5	0.91	1.5	
A 61	1410,60L	4549	0.5	0.97	2.2	
A 62	1380,60L	4389	0.5	0.85	1.5	
A 63	1350,60L	4336	0.5	2.5	4.2	
A 64	1320,60L	4337	0.5	0.86	1.6	
A 65	1290,60L	4338	0.5	1.7	1.4	
A 66	1260,60L	4339	0.5	0.88	1.5	
A 67	1230,60L	4284	0.5	1.4	1.5	
A 68	1200,60L	4285	0.5	1.6	1.3	
A 69	1170,60L	4286	0.5	0.59	1.1	
A 70	1140,60L	4259	0.5	1.6	1.1	
A 71	1110,60L	4260	0.5	0.79	1.8	
A 72	1080,60L	4261	0.5	0.78	1	
A 73	1050,60L	4262	0.5	0.93	1.6	
A 74	1020,60L	4263	0.5	1.3	1.3	
A 75	990,60L	4182	0.5	1.2	2.4	
A 76	960,60L	3935	0.5	1	0.96	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 77	930,60L	3936	0.5	1.6	1.2	
A 78	900,60L	3937	0.5	1.3	1	
A 79	870,60L	3938	0.5	1.6	1.7	
A 80	840,60L	3939	0.5	1.4	0.75	
A 81	810,60L	3940	0.5	1.5	1.7	
A 82	780,60L	3941	0.5	1.8	1.2	
A 83	750,60L	3942	0.5	1.7	0.55	
A 84	720,60L	3943	0.5	0.92	1.3	
A 85	690,60L	3944	0.5	1.8	1.3	
A 86	660,60L	3945	0.5	2	1.9	
A 87	630,60L	4264	0.5	2.5	3.7	
A 88	600,60L	4265	0.5	1.7	3	
A 89	570,60L	3946	0.5	2	1.1	
A 90	540,60L	3724	0.5	1.1	1.4	
A 91	510,60L	3571	0.5	1.8	2.6	
A 92	480,60L	3570	0.5	1.4	1.9	
A 93	450,60L	3553	0.5	1.7	2	
A 94	420,60L	3554	0.5	1.2	1.9	
A 95	390,60L	3555	0.5	2.2	2.2	
A 96	360,60L	3556	0.5	0.43	1.8	
A 97	330,60L	3474	0.5	1.2	3.8	
A 98	300,60L	3475	0.5	2.2	3.6	
A 99	270,60L	3476	0.5	1.7	2.9	
A 100	240,60L	3477	0.5	0.69	2.4	
A 101	210,60L	3478	0.5	1.1	3	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 102	180,60L	3613	0.5	1.8	2.8	
A 103	150,60L	3614	0.5	1.4	1.3	
A 104	120,60L	3615	0.5	1.3	0.97	
A 105	90,60L	3616	0.5	1.4	0.97	
A 106	60,60L	3617	0.5	1	1.6	
A 107	30,60L	3618	0.5	2.2	1.8	
A 108	1635,60L; 1620,60L; 1620,90L; 1634,90L; 1650,75L	4655	0.5	0.98	1.9	
A 109	1620,90L	4656	0.5	0.89	1.4	
A 110	1590,90L	4550	0.5	1.2	1.5	
A 111	1560,90L	4551	0.5	1.3	2.1	
A 112	1530,90L	4552	0.5	2.2	3.3	
A 113	1500,90L	4553	0.5	2	4.5	
A 114	1470,90L	4811	0.5	0.68	1.9	
A 115	1440,90L	4822	0.5	1.4	0.88	
A 116	1410,90L	4554	0.5	1.5	1.9	
A 117	1380,90L	4390	0.5	1.3	2.4	
A 118	1350,90L	4340	0.5	2.2	2.6	
A 119	1320,90L	4341	0.5	0.82	1.6	
A 120	1290,90L	4342	0.5	1.8	0.94	
A 121	1260,90L	4343	0.5	0.68	1.4	
A 122	1230,90L	4287	0.5	1.7	1.5	
A 123	1200,90L	4288	0.5	0.83	1.6	
A 124	1170,90L	4290	0.5	0.73	2	
A 125	1140,90L	4289	0.5	1.5	1.3	
A 126	1110,90L	4266	0.5	1.1	0.93	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 127	1080,90L	4267	0.5	1.2	1.4	
A 128	1050,90L	4268	0.5	1.1	1.6	
A 129	1020,90L	4269	0.5	1.6	1.8	
A 130	990,90L	4185	0.5	1.4	1.3	
A 131	960,90L	3947	0.5	0.76	1.1	
A 132	930,90L	3948	0.5	1.4	1.3	
A 133	900,90L	3949	0.5	1.3	1.5	
A 134	870,90L	3950	0.5	1.3	1.1	
A 135	840,90L	3951	0.5	1.4	1.3	
A 136	810,90L	3952	0.5	2	2.6	
A 137	780,90L	3953	0.5	0.8	0.99	
A 138	750,90L	3954	0.5	1.1	1.2	
A 139	720,90L	3955	0.5	1.5	1.1	
A 140	690,90L	3956	0.5	1.1	1.4	
A 141	660,90L	4270	0.5	1.8	1.9	
A 142	630,90L	4271	0.5	1.1	1.7	
A 143	600,90L	4272	0.5	1.1	1.5	
A 144	570,90L	4183	0.5	1.9	2	
A 145	540,90L	4184	0.5	1.9	2.4	
A 146	510,90L	3572	0.5	1.7	3	
A 147	480,90L	3573	0.5	1.4	1.9	
A 148	450,90L	3557	0.5	1.7	3.1	
A 149	420,90L	3558	0.5	1.4	2.4	
A 150	390,90L	3560	0.5	1.3	2.5	
A 151	360,90L	3561	0.5	0.94	1.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 152	330,90L	3470	0.5	1.5	3.1	
A 153	300,90L	3471	0.5	2	3.1	
A 154	270,90L	3574	0.5	1.6	1.6	
A 155	240,90L	3575	0.5	1.5	1.3	
A 156	210,90L	3576	0.5	1.7	2	
A 157	180,90L	3619	0.5	1.4	1.6	
A 158	150,90L	3620	0.5	1.7	2.2	
A 159	120,90L	3621	0.5	1.5	1.6	
A 160	90,90L	3632	0.5	1.7	1.9	
A 161	60,90L	3622	0.5	1.4	1.7	
A 162	30,90L	3623	0.5	2.4	3.1	
A 163	1634,90L; 1620,90L; 1620,107L	4657	0.5	1.4	1.5	
A 164	1620,107L; 1620,90L; 1590,90L; 1590,120L; 1608,120L	4658	0.5	1.2	0.84	
A 165	1590,120L	4555	0.5	0.91	1.7	
A 166	1560,120L	4556	0.5	0.72	1.2	
A 167	1530,120L	4557	0.5	0.93	3.3	
A 168	1500,120L	4558	0.5	1.5	3.4	
A 169	1470,120L	4803	0.5	0.84	1.1	
A 170	1440,120L	4804	0.5	0.71	0.58	
A 171	1410,120L	4559	0.5	1.2	1.7	
A 172	1380,120L	4391	0.5	2	3.1	
A 173	1350,120L	4344	0.5	0.37	1.6	
A 174	1320,120L	4345	0.5	3	4.1	
A 175	1290,120L	4346	0.5	0.47	1.3	
A 176	1260,120L	4347	0.5	2.1	1.5	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 177	1230,120L	4348	0.5	1.2	1.8	
A 178	1200,120L	4291	0.5	1.7	1.5	
A 179	1170,120L	4292	0.5	1.2	1.6	
A 180	1140,120L	4293	0.5	1.4	1.3	
A 181	1110,120L	4294	0.5	0.89	1.9	
A 182	1080,120L	4295	0.5	1.6	1.0	
A 183	1050,120L	4296	0.5	0.87	1.5	
A 184	1020,120L	4297	0.5	1.4	1.8	
A 185	990,120L	4186	0.5	1.1	1.8	
A 186	960,120L	3957	0.5	1.4	1.5	
A 187	930,120L	3958	0.5	1.2	1.7	
A 188	900,120L	3959	0.5	0.64	1.6	
A 189	870,120L	3960	0.5	0.5	1.2	
A 190	840,120L	4188	0.5	1.5	2.1	
A 191	810,120L	4189	0.5	1.7	2.2	
A 192	780,120L	4190	0.5	1.7	1.7	
A 193	750,120L	4191	0.5	0.98	1	
A 194	720,120L	4192	0.5	0.98	1.1	
A 195	690,120L	4273	0.5	1.7	2.3	
A 196	660,120L	4274	0.5	1.6	2	
A 197	630,120L	4275	0.5	1.6	2.2	
A 198	600,120L	4187	0.5	1.6	1	
A 199	570,120L	4193	0.5	1.1	2	
A 200	540,120L	3725	0.5	1.7	4.5	
A 201	510,120L	3577	0.5	2.3	4.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 202	480,120L	3578	0.5	1.4	2	
A 203	450,120L	3562	0.5	1.6	3.1	
A 204	420,120L	3563	0.5	1.9	3	
A 205	390,120L	3535	0.5	1.4	2.3	
A 206	360,120L	3536	0.5	1.3	2.1	
A 207	330,120L	3472	0.5	1.6	2.9	
A 208	300,120L	3473	0.5	1.1	3.6	
A 209	270,120L	3579	0.5	1.4	1.1	
A 210	240,120L	3580	0.5	1	1.2	
A 211	210,120L		0.5	1.6	1.3	
A 212	180,120L	3624	0.5	1.3	1.9	
A 213	150,120L	3625	0.5	1.7	1.8	
A 214	120,120L	3626	0.5	1.4	2.6	
A 215	90,120L	3627	0.5	1.4	2.1	
A 216	60,120L	3628	0.5	2.9	3.1	
A 217	30,120L	3629	0.5	1.7	3.3	
A 218	1608,120L; 1590,120L; 1590,137L; 1599,130L	4659	0.5	0.97	1.2	
A 219	1590,137L; 1590,120L; 1560,120L; 1560,150L; 1574,150L	4660	0.5	0.69	1.6	
A 220	1560,150L	4560	0.5	1.3	2.1	
A 221	1530,150L	4561	0.5	1.6	2.7	
A 222	1500,150L	4562	0.5	1.8	3	
A 223	1470,150L	4805	0.5	0.4	1.3	
A 224	1440,150L	4806	0.5	0.23	0.74	
A 225	1410,150L	4563	0.5	1.3	1.3	
A 226	1380,150L	4349	0.5	2.9	3.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 227	1350,150L	4350	0.5	1.1	1.6	
A 228	1320,150L	4351	0.5	1	1.6	
A 229	1290,150L	4352	0.5	0.84	1.2	
A 230	1260,150L	4567	0.5	1.4	1.6	
A 231	1230,150L	4568	0.5	0.65	1.2	
A 232	1200,150L	4396	0.5	1.2	1.4	
A 233	1170,150L	4397	0.5	0.8	1.6	
A 234	1140,150L	4194	0.5	2	2.6	
A 235	1110,150L	4299	0.5	0.91	1.5	
A 236	1080,150L	4300	0.5	1.6	1.5	
A 237	1050,150L	4301	0.5	1.6	1.8	
A 238	1020,150L	4302	0.5	0.92	1.8	
A 239	990,150L	4195	0.5	1.1	2	
A 240	960,150L	3961	0.5	0.82	0.8	
A 241	930,150L	3962	0.5	0.62	1.5	
A 242	900,150L	3963	0.5	0.83	0.87	
A 243	870,150L	3964	0.5	0.85	1.3	
A 245	840,150L	4196	0.5	1.4	1.1	
A 246	810,150L	4197	0.5	1.4	2.7	
A 247	780,150L	4198	0.5	1.4	1.4	
A 248	750,150L	4199	0.5	9.2	1.3	
A 249	720,150L	4200	0.5	0.89	0.97	
A 250	690,150L	4277	0.5	1.6	1.3	
A 251	660,150L	4276	0.5	1.8	3.3	
A 252	630,150L	4201	0.5	0.76	1.01	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
A 253	600,150L	4202	0.5	1.2	1.5	
A 254	570,150L	4298	0.5	1	1.2	
A 255	540,150L	3726	0.5	2	2.3	
A 256	510,150L	3582	0.5	2.7	5.5	
A 257	480,150L	3583	0.5	1.3	2.9	
A 258	450,150L	3564	0.5	1.4	2.9	
A 259	420,150L	3565	0.5	0.89	3.2	
A 260	390,150L	3537	0.5	2.1	1.6	
A 261	360,150L	3533	0.5	1.2	2.4	
A 262	330,150L	3485	0.5	2.2	2.9	
A 263	300,150L	3484	0.5	2.1	4	
A 264	270,150L	3584	0.5	1.4	2.5	
A 265	240,150L	3585	0.5	1.1	2.2	
A 266	210,150L	3586	0.5	2.1	2.6	
A 267	180,150L	3630	0.5	2.1	2.7	
A 268	150,150L	3631	0.5	1.5	2.8	
A 269	120,150L	3633	0.5	2.1	2.3	
A 270	90,150L	3634	0.5	2.4	3.2	
A 271	60,150L	3635	0.5	1.4	3.1	
A 272	30,150L	3636	0.5	2.4	4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 1	1574,150L; 1560,150L; 1560,161L	4661	0.5	2.4	3	
B 2	1560,161L; 1560,150L; 1530,150L; 1530,160L; 1548,171L	4662	0.5	0.94	1	
B 3	1530,160L; 1530,150L; 1500,150L; 1500,185L; 1514,162L	4564	0.5	2.7	3.9	
B 4	1500,180L	4565	0.5	1.2	1.3	
B 5	1470,180L	4808	0.5	0.4	1.9	
B 6	1440,180L	4807	0.5	1.5	0.94	
B 7	1410,180L	4566	0.5	2	3.1	
B 8	1380,180L	4353	0.5	0.91	1.5	
B 9	1350,180L	4354	0.5	0.62	1.5	
B 10	1320,180L	4355	0.5	1.7	2.1	
B 11	1290,180L	4356	0.5	1.2	0.98	
B 12	1260,180L	4569	0.5	1.3	1.6	
B 13	1230,180L	4570	0.5	0.8	2	
B 14	1200,180L	4571	0.5	0.37	1.3	
B 15	1170,180L	4398	0.5	0.83	1.2	
B 16	1140,180L	4303	0.5	1	2	
B 17	1110,180L	4304	0.5	1.4	2.7	
B 18	1080,180L	4305	0.5	0.97	0.72	
B 19	1050,180L	4306	0.5	0.98	1.4	
B 20	1020,180L	4307	0.5	1.1	2.6	
B 21	990,180L	4203	0.5	0.38	1.1	
B 22	960,180L	4204	0.5	1.3	1.4	
B 23	930,180L	4205	0.5	0.34	1.1	
B 24	900,180L	4206	0.5	0.98	1.4	
B 25	870,180L	4207	0.5	0.63	1.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 26	840,180L	4208	0.5	1.7	1.8	
B 27	810,180L	4209	0.5	1	1.8	
B 28	780,180L	4210	0.5	0.44	0.84	
B 29	750,180L	4308	0.5	0.96	1.2	
B 30	720,180L	4309	0.5	1.4	3.2	
B 31	690,180L	4211	0.5	0.94	1.8	
B 32	660,180L	4051	0.5	1.1	2.3	
B 33	630,180L	4052	0.5	1.7	1.8	
B 34	600,180L	4054	0.5	2.2	1.8	
B 35	570,180L	3727	0.5	1.2	2.6	
B 36	540,180L	3728	0.5	2.2	2.5	
B 37	510,180L	3587	0.5	2	1.8	
B 38	480,180L	3588	0.5	0.75	1.6	
B 39	450,180L	3566	0.5	1.5	3.7	
B 40	420,180L	3567	0.5	1.1	2.3	
B 41	390,180L	3539	0.5	1	1.7	
B 42	360,180L	3540	0.5	1.5	2.5	
B 43	330,180L	3486	0.5	1.5	3.2	
B 44	300,180L	3487	0.5	1.7	3.2	
B 45	270,180L	3488	0.5	1.7	3.7	
B 46	240,180L	3589	0.5	1.2	2.8	
B 47	210,180L	3590	0.5	1.7	2.2	
B 48	180,180L	3489	0.5	1.3	3	
B 49	150,180L	3490	0.5	1.4	1.8	
S 50	120,180L	3637	0.5	1.5	2.4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 51	90,180L	3638	0.5	2.5	3.2	
B 52	60,180L	3639	0.5	1	3.2	
B 53	30,180L	3640	0.5	1.8	2.1	
B 56	1500,185L; 1500,180L; 1470,180L; 1470,210L; 1484,210L	4634	0.5	1.3	1.8	
B 57	1470,210L	4635	0.5	1.2	1.2	
B 58	1440,210L	4636	0.5	0.89	1.6	
B 59	1410,210L	4357	0.5	1.8	2.5	
B 60	1380,210L	4358	0.5	0.5	1.1	
B 61	1350,210L	4359	0.5	1.1	0.93	
B 62	1320,210L	4360	0.5	0.68	0.97	
B 63	1290,210L	4572	0.5	1.1	2.2	
B 64	1260,210L	4573	0.5	0.67	1.8	
B 65	1230,210L	4574	0.5	1.5	0.55	
B 66	1200,210L	4575	0.5	0.65	0.88	
B 67	1170,210L	4399	0.5	0.55	1.1	
B 68	1140,210L	4310	0.5	0.97	1.2	
B 69	1110,210L	4311	0.5	0.78	1.7	
B 70	1080,210L	4312	0.5	0.8	1.2	
B 71	1050,210L	4313	0.5	1.3	2.3	
B 72	1020,210L	4314	0.5	1.1	1.2	
B 73	990,210L	4212	0.5	0.64	0.89	
B 74	960,210L	4213	0.5	0.83	1.3	
B 75	930,210L	4214	0.5	1.1	1	
B 76	900,210L	4215	0.5	0.67	1.1	
B 77	870,210L	4216	0.5	1.2	1.4	
B 78	840,210L	4217	0.5	1.1	1.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 79	810,210L	4218	0.5	1.2	1.3	
B 80	780,210L	4315	0.5	1.3	2.6	
B 81	750,210L	4316	0.5	1.6	2	
B 82	720,210L	4317	0.5	1.8	1.6	
B 83	690,210L	4053	0.5	0.98	1.8	
B 84	660,210L	4055	0.5	1.4	1.7	
B 85	630,210L	3803	0.5	1	3.3	
B 86	600,210L	3729	0.5	2.5	2.5	
B 87	570,210L	3730	0.5	0.93	2.7	
B 88	540,210L	3731	0.5	1.4	1.3	
B 89	510,210L	3591	0.5	1.2	2.3	
B 90	480,210L	3592	0.5	0.99	1.6	
B 91	450,210L	3593	0.5	1.5	2.2	
B 92	420,210L	3594	0.5	1.1	1.9	
B 93	390,210L	3541	0.5	0.9	2.1	
B 94	360,210L	3542	0.5	1.7	2.3	
B 95	330,210L	3492	0.5	1.5	2.7	
B 96	300,210L	3493	0.5	1.5	2.7	
B 97	270,210L	3493	0.5	0.83	2.9	
B 98	240,210L	3494	0.5	1.3	2.8	
B 99	210,210L	3495	0.5	2.3	2.9	
B 100	180,210L	3496	0.5	1.7	2.8	
B 101	150,210L	3497	0.5	1.9	3.8	
B 102	120,210L	3498	0.5	1.9	2	
B 103	90,210L	3499	0.5	1.6	3.4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 104	60,210L	3500	0.5	1.6	2.4	
B 105	30,210L	3501	0.5	2.3	1.9	
B 107	1484,210L; 1470,210L; 1470,222L; 1477,219L	4637	0.5	1.4	1.5	
B 108	1470,222L; 1470,210L; 1440,210L; 1440,235L	4638	0.5	0.69	1.2	
B 109	1440,235L; 1440,210L; 1410,210L; 1410,240L; 1429,240L	4639	0.5	2	4.1	
B 110	1410,240L	4361	0.5	1.3	1.4	
B 111	1380,240L	4362	0.5	1.4	1.2	
B 112	1350,240L	4363	0.5	0.93	1.9	
B 113	1320,240L	4576	0.5	0.82	0.77	
B 114	1290,240L	4577	0.5	0.88	1.8	
B 115	1260,240L	4578	0.5	1.1	1.5	
B 116	1230,240L	4579	0.5	0.74	1.6	
B 117	1200,240L	4400	0.5	1.3	1.6	
B 118	1170,240L	4401	0.5	0.94	1.8	
B 119	1140,240L	4318	0.5	0.52	1.4	
B 120	1110,240L	4319	0.5	0.57	1	
B 121	1080,240L	4320	0.5	1.4	1.8	
B 122	1050,240L	4321	0.5	1.1	2.4	
B 123	1020,240L	4322	0.5	2.2	1.3	
B 124	990,240L	4219	0.5	1.3	1.1	
B 125	960,240L	4221	0.5	1.1	0.52	
B 126	930,240L	4220	0.5	1.8	0.76	
B 127	900,240L	4222	0.5	0.9	0.82	
B 128	870,240L	4223	0.5	1.6	1.7	
B 129	840,240L	4323	0.5	1.8	2.9	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 130	810,240L	4324	0.5	2.2	2.7	
B 131	780,240L	4325	0.5	1.1	1.4	
B 132	750,240L	4056	0.5	1.2	1.8	
B 133	720,240L	3807	0.5	1.2	2.4	
B 134	690,240L	3808	0.5	0.37	1.4	
B 135	660,240L	3809	0.5	1.5	1.9	
B 136	630,240L	3806	0.5	1.7	2.4	
B 137	600,240L	3732	0.5	1.3	2.8	
B 138	570,240L	3733	0.5	1.9	3.5	
B 139	540,240L	3734	0.5	1.7	2.6	
B 140	510,240L	3595	0.5	1.8	3.2	
B 141	480,240L	3596	0.5	1.5	2.7	
B 142	450,240L	3597	0.5	1	1.3	
B 143	420,240L	3598	0.5	1.7	2.8	
B 144	390,240L	3543	0.5	0.83	3	
B 145	360,240L	3544	0.5	1.1	2.2	
B 146	330,240L	3502	0.5	1.5	1.3	
B 147	300,240L	3503	0.5	1.8	3	
B 148	270,240L	3504	0.5	1.5	2.2	
B 149	240,240L	3505	0.5	2	3.5	
B 150	210,240L	3506	0.5	1.4	2.7	
B 151	180,240L	3507	0.5	2.9	3.4	
B 152	150,240L	3508	0.5	2.2	3.8	
B 153	120,240L	3509	0.5	1.9	1.3	
B 154	90,240L	3510	0.5	2.1	2.8	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 155	60,240L	3511	0.5	2.5	2.1	
B 156	30,240L	3512	0.5	2	3.2	
B 159	1429,240L; 1410,240L; 1410,248L	4640	0.5	0.65	1.7	
B 160	1410,248L; 1410,240L; 1380,240L; 1380,270L; 1405,270L; 1408,250L	4364	0.5	1.5	1.7	
B 161	1380,270L	4365	0.5	0.99	1.6	
B 162	1350,270L	4366	0.5	1.2	1.7	
B 163	1320,270L	4580	0.5	1.1	1.5	
B 164	1290,270L	4581	0.5	1.6	1.3	
B 165	1260,270L	4582	0.5	1.7	1	
B 166	1230,270L	4583	0.5	1.2	1.3	
B 167	1200,270L	4402	0.5	1.7	1.7	
B 168	1170,270L	4403	0.5	2	0.99	
B 169	1140,270L	4326	0.5	1.7	2.1	
B 170	1110,270L	4327	0.5	1.1	1	
B 171	1080,270L	4328	0.5	1.3	2	
B 172	1050,270L	4439	0.5	2.6	5.8	
B 173	1020,270L	4440	0.5	2.2	2.2	
B 174	990,270L	4224	0.5	1.5	0.24	
B 175	960,270L	4225	0.5	1.5	0.86	
B 176	930,270L	4226	0.5	0.72	0.43	
B 177	900,270L	4227	0.5	1.6	2.4	
B 178	870,270L	4441	0.5	2.1	4.4	
B 179	840,270L	4442	0.5	2.8	4.5	
B 180	810,270L	4329	0.5	0.84	2.1	
B 181	780,270L	4057	0.5	1.3	1.4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 182	750,270L	4058	0.5	1.8	1.1	
B 183	720,270L	3810	0.5	0.61	1.4	
B 184	690,270L	3811	0.5	1.2	2.4	
B 185	660,270L	3812	0.5	1.7	2.2	
B 186	630,270L	3813	0.5	1.7	2.5	
B 187	600,270L	3745	0.5	1.2	2.7	
B 188	570,270L	3746	0.5	1.8	4.2	
B 189	540,270L	3747	0.5	2.4	4.5	
B 190	510,270L	3599	0.5	2.6	3.7	
B 191	480,270L	3600	0.5	1.1	2.1	
B 192	450,270L	3601	0.5	1.5	2.5	
B 193	420,270L	3602	0.5	1.4	3.1	
B 194	390,270L	3545	0.5	1.6	3.6	
B 195	360,270L	3546	0.5	2	3	
B 196	330,270L	3513	0.5	2	2.4	
B 197	300,270L	3514	0.5	1.6	3.5	
B 198	270,270L	3515	0.5	2.1	2.7	
B 199	240,270L	3516	0.5	1.8	4.2	
B 200	210,270L	3517	0.5	2.6	4.4	
B 201	180,270L	3518	0.5	2	4.9	
B 202	150,270L	3519	0.5	1.3	3.6	
B 203	120,270L	3520	0.5	1.8	3.9	
B 204	90,270L	3521	0.5	1.4	4.3	
B 205	60,270L	3522	0.5	3.7	2.9	
B 206	30,270L	3523	0.5	2.7	5.3	

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 208	1405,270L; 1380,270L; 1380,300L; 1400,300L	4641	0.5	1.3	1.1	Duplicate
B 209	1405,270L; 1380,270L; 1380,300L; 1400,300L	4367	0.5	1.1	0.86	Duplicate
B 210	1380,300L	4368	0.5	0.87	1.1	
B 211	1350,300L	4392	0.5	1.4	1.8	
B 212	1320,300L	4393	0.5	0.81	1.4	
B 213	1290,300L	4584	0.5	1.7	1.5	
B 214	1260,300L	4586	0.5	1.9	1.3	
B 215	1230,300L	4585	0.5	1.5	2.2	
B 216	1200,300L	4404	0.5	1.5	1.7	
B 217	1170,300L	4405	0.5	1.8	1.9	
B 218	1140,300L	4443	0.5	1.5	1.7	
B 219	1110,300L	4444	0.5	0.97	1.5	
B 220	1080,300L	4445	0.5	1.5	1.7	
B 221	1050,300L	4446	0.5	1.2	2.1	
B 222	1020,300L	4447	0.5	1.9	2.1	
B 223	990,300L	4228	0.5	0.93	1	
B 224	960,300L	4229	0.5	1.1	1.4	
B 225	930,300L	4230	0.5	1.3	2.1	
B 226	900,300L	4448	0.5	2.9	4.8	
B 227	870,300L	4449	0.5	1.2	3.2	
B 228	840,300L	4330	0.5	1.9	1.9	
B 229	810,300L	4331	0.5	0.91	1.4	
B 230	780,300L	4239	0.5	1.4	0.53	
B 231	750,300L	4234	0.5	1.3	2.3	
B 232	720,300L	4235	0.5	1.4	1.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
B 233	690,300L	4236	0.5	0.82	2.4	
B 234	660,300L	4237	0.5	1.6	2.2	
B 235	630,300L	4238	0.5	1.3	2.4	
B 236	600,300L	3748	0.5	1.9	3.1	
B 237	570,300L	3749	0.5	2.7	3.6	
B 238	540,300L	3750	0.5	1.4	2.2	
B 239	510,300L	3603	0.5	2.6	1.8	
B 240	480,300L	3604	0.5	1.6	1.9	
B 241	450,300L	3605	0.5	1.2	1.7	
B 242	420,300L	3606	0.5	2.1	3.2	
B 243	390,300L	3547	0.5	2.2	3.6	
B 244	360,300L	3548	0.5	2.1	4.3	
B 245	330,300L	3524	0.5	1	4.7	
B 246	300,300L	3525	0.5	3	4	
B 247	270,300L	3526	0.5	1.8	6.2	
B 248	240,300L	3527	0.5	2.6	4.9	
B 249	210,300L	3528	0.5	1.3	3.8	
B 250	180,300L	3529	0.5	1.9	4.6	
B 251	150,300L	3530	0.5	2.3	3.9	
B 252	120,300L	3531	0.5	1.9	4.4	
B 253	90,300L	3532	0.5	2.5	3	
B 254	60,300L	3533	0.5	1.6	2.1	
B 255	30,300L	3534	0.5	1.7	2.8	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 2	1400,300L; 1380,300L; 1380,330L; 1383,330L; 1397,313L	4406	0.5	1.4	1.1	
C 3	1380,330L	4407	0.5	1.4	1.6	
C 4	1350,330L	4369	0.5	1.5	0.68	
C 5	1320,330L	4370	0.5	0.86	1.2	
C 6	1290,330L	4371	0.5	1.4	1.2	
C 7	1260,330L	4412	0.5	1.3	2.3	
C 8	1230,330L	4413	0.5	0.8	1.9	
C 9	1200,330L	4414	0.5	0.79	1.7	
C 10	1170,330L	4408	0.5	1.4	0.6	
C 11	1140,330L	4450	0.5	1	0.97	
C 12	1110,330L	4451	0.5	0.57	1.5	
C 13	1080,330L	4452	0.5	1.1	1.2	
C 14	1050,330L	4498	0.5	1.3	1.7	
C 15	1020,330L	4499	0.5	1.8	3.6	
C 16	990,330L	4231	0.5	1.2	1.9	
C 17	960,330L	4232	0.5	1.2	1.8	
C 18	930,330L	4233	0.5	2	5.3	
C 19	900,330L	4517	0.5	2.9	3.9	
C 20	870,330L	4518	0.5	1.5	2.2	
C 21	840,330L	4240	0.5	1.5	3.6	
C 22	810,330L	4241	0.5	2.4	3	
C 23	780,330L	4242	0.5	1.4	1.1	
C 24	750,330L	4243	0.5	1.2	1.7	
C 25	720,330L	4244	0.5	1.8	1.6	
C 26	690,330L	4460	0.5	2	3.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 27	660,330L	4245	0.5	1.2	1.4	
C 28	630,330L	4246	0.5	1.8	2.7	
C 29	600,330L	3751	0.5	2	3.9	Partial Excavation
C 30	570,330L	3752	0.5	2	2.6	Partial Excavation
C 31	540,330L	3754	0.5	1.8	2.2	Partial Excavation
C 32	510,330L	3753	0.5	1.2	2.3	Partial Excavation
C 33	480,330L	3755	0.5	1.5	2.3	Partial Excavation
C 34	450,330L	3756	0.5	3.5	5.4	
C 35	420,330L	3757	0.5	2.5	5.9	
C 36	390,330L	3758	0.5	3.5	4.9	
C 37	360,330L	3759	0.5	1.8	4.4	
C 38	330,330L	3760	0.5	1.6	2	
C 39	300,330L	3761	0.5	2	3.8	
C 40	270,330L	3762	0.5	2.3	3.8	
C 41	240,330L	3763	0.5	2.1	3.9	
C 42	210,330L	3764	0.5	2.6	4.2	
C 43	180,330L	3765	0.5	1.3	2.3	
C 44	150,330L	3766	0.5	2.2	2.2	
C 45	120,330L	3667	0.5	1.8	3	
C 46	90,330L	3668	0.5	1.5	4.4	
C 47	60,330L	3669	0.5	1.1	2.7	
C 48	30,330L	3670	0.5	2	3.9	
C 49	1383,330L; 1380,330L; 1380,334L	4372	0.5	1.7	1.9	
C 50	1380,334L; 1380,330L; 1350,330L; 1350,360L; 1358,360L	4373	0.5	2.3	2.6	
C 51	1350,360L	4374	0.5	1.7	3.1	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 52	1320,360L	4375	0.5	1.7	1.5	
C 53	1290,360L	4376	0.5	1.2	1	
C 54	1260,360L	4415	0.5	0.8	2.2	
C 55	1230,360L	4416	0.5	1.8	1.4	
C 56	1200,360L	4417	0.5	0.9	0.8	
C 57	1170,360L	4418	0.5	0.93	2.1	
C 58	1140,360L	4453	0.5	1.5	1.8	
C 59	1110,360L	4454	0.5	1.2	1.3	
C 60	1080,360L	4455	0.5	1.5	1.7	
C 61	1050,360L	4500	0.5	1.5	1.5	
C 62	1020,360L	4501	0.5	0.69	1.6	
C 63	990,360L	4502	0.5	1.2	1.6	
C 64	960,360L	4503	0.5	2.1	2.4	
C 65	930,360L	4519	0.5	1.4	2.8	
C 66	900,360L	4520	0.5	2.4	2.5	
C 67	870,360L	4521	0.5	1.4	2.7	
C 68	840,360L	4247	0.5	1.1	1.7	
C 69	810,360L	4248	0.5	1.5	2.3	
C 70	780,360L	4249	0.5	1.3	1.3	
C 71	750,360L	4250	0.5	1.8	1.5	
C 72	720,360L	4843	0.5	1.8	2.4	
C 73	690,360L	4844	0.5	0.66	1.1	Partial Excavation
C 74	660,360L	5092	0.5	0.32	1.3	Partial Excavation
C 75	630,360L	5093	0.5	0.97	1.5	Partial Excavation
C 76	600,360L	5094	0.5	1.4	2.8	Partial Excavation
C 77	570,360L	5095	0.5	1.7	3	Partial Excavation

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX. Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 78	540,360L	5096	0.5	1.7	2.2	Partial Excavation
C 79	510,360L	5097	0.5	1.6	2.5	Partial Excavation
C 80	480,360L	5098	0.5	1.1	1.4	Partial Excavation
C 81	450,360L	5099	0.5	1.6	2.6	
C 82	420,360L	3767	0.5	2.4	6.2	
C 83	390,360L	3768	0.5	3.8	5.5	
C 84	360,360L	3769	0.5	3.4	6.1	
C 85	330,360L	3770	0.5	2.8	6.6	
C 86	300,360L	3771	0.5	2.1	4.6	
C 87	270,360L	3772	0.5	2.9	4.7	
C 88	240,360L	3773	0.5	2.6	3.9	
C 89	210,360L	3774	0.5	1.9	4.1	
C 90	180,360L	3775	0.5	1.5	3.7	
C 91	150,360L	3776	0.5	2.4	2.5	
C 92	120,360L	3671	0.5	1.8	3.3	
C 93	90,360L	3672	0.5	1.6	3.5	
C 94	60,360L	3673	0.5	1.3	2.2	
C 95	30,360L	3674	0.5	2.2	3.4	
C 96	1358,360L; 1350,360L; 1350,370L	4377	0.5	1.1	1.9	
C 97	1350,370L; 1350,360L; 1320,360L; 1320,390L; 1333,390L	4378	0.5	0.91	1.3	
C 98	1320,390L	4379	0.5	1.4	1.2	
C 99	1290,390L	4380	0.5	1.8	2.6	
C 100	1260,390L	4419	0.5	0.37	2.1	
C 101	1230,390L	4420	0.5	1.5	1.5	
C 102	1200,390L	4421	0.5	0.58	2.3	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 103	1170,390L	4422	0.5	1.1	1.6	
C 104	1140,390L	4457	0.5	0.8	2.1	
C 105	1110,390L	4456	0.5	1	1.8	
C 106	1080,390L	4504	1.02	1.6	1.5	
C 107	1050,390L	4505	1.18	1	1.3	
C 108	1020,390L	4506	1.18	1.9	2.4	
C 109	990,390L	4507	1.13	1.8	1.4	
C 110	960,390L	4508	1.07	1.8	2.8	
C 111	930,390L	4509	0.59	1.6	1	
C 112	900,390L	4522	0.5	1.2	1.4	
C 113	870,390L	4523	0.5	1.5	1.6	
C 114	840,390L	4251	0.5	0.78	0.55	
C 115	810,390L	4252	0.5	2.1	2.7	
C 116	780,390L	5100	0.5	0.86	1.4	Partial Excavation
C 117	750,390L	5101	0.5	1.9	1.5	Partial Excavation
C 118	720,390L	5102	0.5	2.6	4.2	Partial Excavation
C 119	690,390L	5103	0.5	1.8	1.3	Partial Excavation
C 120	660,390L	5104	0.5	0.93	1	Partial Excavation
C 121	630,390L	5105	0.5	1.9	2.5	Partial Excavation
C 122	600,390L	4845	0.5	2.4	4.3	
C 123	570,390L	4846	0.5	3.7	7.5	
C 124	540,390L	4847	0.5	3	4.9	
C 125	510,390L	3781	0.5	2.6	4.3	
C 126	480,390L	3782	0.5	2.1	4.2	
C 127	450,390L	3783	0.5	2.1	4.9	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 128	420,390L	3784	0.5	3	5	
C 129	390,390L	3682	0.5	2.7	3.8	
C 130	360,390L	3683	0.5	2.8	3.8	
C 131	330,390L	3684	0.5	3	3.8	
C 132	300,390L	3685	0.5	2.5	4.6	
C 133	270,390L	3686	0.5	2.7	4.1	
C 134	240,390L	3687	0.5	2.8	5	
C 135	210,390L	3777	0.5	2.3	3.6	
C 136	180,390L	3778	0.5	1.6	2.8	
C 137	150,390L	3779	0.5	1.7	4	
C 138	120,390L	3675	0.5	1.4	2.7	
C 139	90,390L	3676	0.5	1.5	2.6	
C 140	60,390L	3679	0.5	1	2.7	
C 141	30,390L	3678	0.5	2	3.4	
C 142	1333,390L; 1320,390L; 1320,405L	4381	0.5	1.4	0.97	
C 143	1320,405L; 1320,390L; 1290,390L; 1290,420L; 1311,420L; 1315,410L	4382	0.5	1.4	1.5	
C 144	1290,420L	4383	0.5	1.3	1.2	
C 145	1260,420L	4384	0.5	0.76	1.9	
C 146	1230,420L	4423	0.5	1	1.6	
C 147	1200,420L	4424	0.5	0.65	1.5	
C 148	1170,420L	4425	0.5	1.1	1.9	
C 149	1140,420L	4458	0.5	0.62	1.4	
C 150	1110,420L	4459	0.5	0.76	1.3	
C 151	1080,420L	4510	1.62	1.2	1.8	
C 152	1050,420L	4511	1.86	1.7	1.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 153	1020,420L	4512	1.86	2	2.1	
C 154	990,420L	4513	1.86	1.8	2.1	
C 155	960,420L	4514	1.86	1.9	1.7	
C 156	930,420L	4515	1.86	1.4	1.3	
C 157	900,420L	4524	1.55	1.9	1.8	
C 158	870,420L	5106	1.07	1.3	2	
C 159	840,420L	5107	0.5	1.7	2	Partial Verification C158/C159 Duplicate Verification
C 159	840,420L	5108	0.5	1.2	0.93	Partial Excacation Duplicate Verification
C 160	810,420L	5109	0.5	1.4	1.3	Partial Excacation
C 161	780,420L	5110	0.5	1.4	2.1	Partial Excacation
C 162	750,420L	5111	0.5	1.5	1.6	Partial Excacation
C 163	720,420L	5112	0.5	0.96	1.8	Partial Excacation
C 164	690,420L	5113	0.5	1.7	2.1	
C 165	660,420L	4823	0.5	1.5	1.8	
C 166	630,420L	4824	0.5	2.2	3	
C 167	600,420L	3785	0.5	3.5	6.4	
C 168	570,420L	3786	0.5	3.3	6.4	
C 169	540,420L	3787	0.5	2.9	5.9	
C 170	510,420L	3788	0.5	2.2	3.6	
C 171	480,420L	3789	0.5	1.6	3.7	
C 172	450,420L	3790	0.5	3.3	3.9	
C 173	420,420L	3791	0.5	2.4	5.3	
C 174	390,420L	3688	0.5	3.4	4	
C 175	360,420L	3689	0.5	2.2	3.4	
C 176	330,420L	3690	0.5	2.2	3.2	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 177	300,420L	3691	0.5	1.1	2.9	
C 178	270,420L	3692	0.5	1.5	3.2	
C 179	240,420L	3693	0.5	2.3	4.4	
C 180	210,420L	3966	0.5	3.2	5.3	
C 181	180,420L	3967	0.5	2	5.9	
C 182	150,420L	3968	0.5	2.1	3.7	
C 183	120,420L	3641	0.5	2.4	5.1	
C 184	90,420L	3642	0.5	3	3.8	
C 185	60,420L	3644	0.5	2.1	2.2	
C 186	30,420L	3643	0.5	1.3	2.2	
C 187	1311,420L; 1290,420L; 1290,450L; 1299,450L; 1300,449L	4385	0.5	1.8	1.8	
C 188	1290,450L	4386	0.5	1.4	1.9	
C 189	1260,450L	4387	0.5	1.3	1.3	
C 190	1230,450L	4426	0.5	1.4	1.7	
C 191	1200,450L	4427	0.5	1.1	1.8	
C 192	1170,450L	4428	0.5	1.6	2	
C 193	1140,450L	4488	0.5	0.91	1.4	
C 194	1110,450L	4489	0.5	1.6	1.1	
C 195	1080,450L	4525	1.62	1.7	3.9	
C 196	1050,450L	4516	1.86	2.8	4.2	
C 197	1020,450L	4850	1.86	1.9	3.9	
C 198	990,450L	4851	1.86	2.1	2.8	
C 199	960,450L	5114	1.86	1.1	0.79	
C 200	930,450L	5115	1.86	1.9	2	
C 201	900,450L	5116	1.86	1.6	1.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 202	870,450L	5117	1.86	1.3	1.8	
C 203	840,450L	5118	1.86	2	1.9	
C 204	810,450L	5120	0.85	2	2.4	
C 205	780,450L	5121	0.5	0.5	1.7	
C 206	750,450L	4825	0.5	1.5	2.2	
C 207	720,450L	4826	0.5	1.8	2.1	
C 208	690,450L	4070	0.5	1.3	2.3	
C 209	660,450L	4071	0.5	1.7	4	
C 210	630,450L	3914	0.5	2.7	4.8	
C 211	600,450L	3792	0.5	3.1	5.9	
C 212	570,450L	3793	0.5	1.1	3	
C 213	540,450L	3794	0.5	2.3	4.3	
C 214	510,450L	3795	0.5	2.2	5.7	
C 215	480,450L	3796	0.5	1.8	3.6	
C 216	450,450L	3797	0.5	1.9	5.1	
C 217	420,450L	3798	0.5	2.5	5.6	
C 218	390,450L	3694	0.5	2.9	4.4	
C 219	360,450L	3695	0.5	2.4	3.5	
C 220	330,450L	3696	0.5	1.5	3.9	
C 221	300,450L	3697	0.5	1.6	2.4	
C 222	270,450L	3698	0.5	1.7	5.2	
C 223	240,450L	3694	0.5	3.2	5.3	
C 224	210,450L	3969	0.5	2.2	6.4	
C 225	180,450L	3970	0.5	3.2	4.6	
C 226	150,450L	3971	0.5	2.3	4.8	

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
C 227	120,450L	3646	0.5	2.2	4.3	
C 228	90,450L	3645	0.5	1.5	2.3	
C 229	60,450L	3679	0.5	0.92	1.9	
C 230	30,450L	3680	0.5	1.6	1.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 1	1299,450L; 1260,450L; 1260,492L	4409	0.5	1.2	1.6	
D 2	1260,480L	4410	0.5	1.1	2.1	
D 3	1230,480L	4411	0.5	1.4	1.7	
D 4	1200,480L	4490	0.5	1.6	2.4	
D 5	1170,480L	4492	0.5	1.3	1.6	
D 6	1140,480L	4491	0.5	1	1	
D 7	1110,480L	4493	0.5	1.3	0.94	
D 8	1080,480L	4713	1.62	2	4.2	
D 9	1050,480L	5084	1.86	0.89	1.2	
D 10	1020,480L	5085	1.86	1.6	1.9	
D 11	990,480L	5086	1.86	0.65	1.2	
D 12	960,480L	5087	1.86	1.2	1.6	
D 13	930,480L	5088	1.86	0.94	1.8	
D 14	900,480L	5089	1.86	1.3	2.1	
D 15	870,480L	4827	1.86	1.8	2.9	
D 16	840,480L	4828	1.86	1.5	1.2	
D 17	810,480L	4130	0.87	2	2.6	
D 18	780,480L	4131	0.5	1.2	1.4	
D 19	750,480L	4072	0.5	1.2	2.9	
D 20	720,480L	4073	0.5	2.5	2.7	
D 21	690,480L	4074	0.5	1.1	3.1	
D 22	660,480L	3915	0.5	1.2	3.7	
D 23	630,480L	3916	0.5	1.8	2.8	
D 24	600,480L	3799	0.5	1.3	2.2	
D 25	570,480L	3800	0.5	1.4	2.9	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 26	540,480L	3801	0.5	1.4	3.6	
D 27	510,480L	3802	0.5	2	3	
D 28	480,480L	3803	0.5	1.7	4.4	
D 29	450,480L	3780	0.5	2.5	5.1	
D 30	420,480L	3804	0.5	2.5	5.6	
D 31	390,480L	3700	0.5	2.5	4	
D 32	360,480L	3701	0.5	2.3	5.2	
D 33	330,480L	3702	0.5	1.6	4.2	
D 34	300,480L	3703	0.5	1.8	2.8	
D 35	270,480L	3704	0.5	2.3	3.3	
D 36	240,480L	3681	0.5	2.8	5.6	
D 37	210,480L	3972	0.5	3.5	6.4	
D 38	180,480L	3973	0.5	2.4	4.6	
D 39	150,480L	3647	0.5	2.8	4.4	
D 40	120,480L	3648	0.5	1.7	3.9	
D 41	90,480L	3649	0.5	1.7	2.3	
D 42	60,480L	3650	0.5	1.1	1.9	
D 43	30,480L	3651	0.5	1.6	2.4	
D 44	1260,492L; 1260,480L; 1230,480L; 1230,510L; 1243,510L	4394	0.5	0.98	0.77	
D 45	1230,510L	4395	0.5	0.79	1	
D 46	1200,510L	4494	0.5	1.3	1.6	
D 47	1170,510L	4495	0.5	1.4	1.3	
D 48	1140,510L	4496	0.5	0.7	1.3	
D 49	1110,510L	4497	0.5	1.3	2.2	
D 50	1080,510L	4829	1.62	1.8	3.1	

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 51	1050,510L	5090	1.86	0.82	1.9	
D 52	1020,510L	5091	1.86	1.6	1.8	
D 53	990,510L	4830	1.86	1.4	0.95	
D 54	960,510L	4831	1.86	1.2	3.8	
D 55	930,510L	4832	1.86	0.99	1.6	
D 56	900,510L	4132	1.86	1.2	1.9	
D 57	870,510L	4133	1.86	1.3	2.1	
D 58	840,510L	4134	1.44	1.3	2	
D 59	810,510L	4135	0.5	1.1	1.5	
D 60	780,510L	4075	0.5	1.6	2.4	
D 61	720,498L; 720,510L; 733,510L	4076	0.5	2.8	4.5	
D 62	712,490L; 720,498L; 720,480L; 690,480L; 690,510L; 701,510L	4077	0.5	3.1	4.1	
D 63	690,510L	3917	0.5	2	4.1	
D 64	660,510L	3918	0.5	1.2	1.4	
D 65	630,510L	3919	0.5	0.91	3.7	
D 66	600,510L	3920	0.5	1.5	4.9	
D 67	570,510L	3921	0.5	1.1	2.5	
D 68	540,510L	3922	0.5	2	2.8	
D 69	510,510L	3923	0.5	1.5	2.9	
D 70	480,510L	3924	0.5	2.1	3.5	
D 71	450,510L	3925	0.5	1.9	3	
D 72	420,510L	3926	0.5	2.8	4.1	
D 73	390,510L	3705	0.5	2.4	3	
D 74	360,510L	3706	0.5	2.1	3.1	
D 75	330,510L	3707	0.5	1.9	3.3	
D 76	300,510L	3708	0.5	1.7	2.8	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 101	750,526L; 765,540L; 780,540L; 780,510L	4078	0.5	2.3	6	
D 102A	733,510L; 750,526L; 750,510L	4079	0.5	1.2	1.4	E. side of Borrow Site
D 102B	701,510L; 690,510L; 690,529L	4080	0.5	1.5	3	W. side of Borrow Site
D 103	690,529L; 690,510L; 660,510L; 660,540L; 684,540L	4022	0.5	1.6	1.7	
D 104	660,540L	4023	0.5	1.3	1.3	
D 105	630,540L	4024	0.5	1.2	1.2	
D 106	600,540L	4025	0.5	0.98	1.1	
D 107	570,540L	4026	0.5	1.2	1.6	
D 108	540,540L	4027	0.5	1.3	1.5	
D 109	510,540L	4028	0.5	1.5	3.4	
D 110	480,540L	4029	0.5	2.8	5.2	
D 111	450,540L	4030	0.5	2	2.1	
D 112	420,540L	4031	0.5	2.1	4.1	
D 113	390,540L	3711	0.5	2.1	3.7	
D 114	360,540L	3712	0.5	2	3.6	
D 115	330,540L	3713	0.5	2.2	2.8	
D 116	300,540L	3714	0.5	1.9	1.7	
D 117	270,540L	3715	0.5	1.7	3.4	
D 118	240,540L	3716	0.5	2.9	4.8	
D 119	210,540L	3976	0.5	2.6	4.1	
D 120	180,540L	3977	0.5	1.8	3.9	
D 121	150,540L	3657	0.5	3.8	7.2	
D 122	120,540L	3658	0.5	3.8	7.3	
D 123	90,540L	3659	0.5	3.7	8	
D 124	60,540L	3660	0.5	2.9	3.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 125	30,540L	3661	0.5	2.1	3	
D 126	1232,540L; 1200,540L; 1200,570L; 1230,570L	4701	0.5	1.5	2.3	
D 127	1200,570L	4702	0.5	0.56	1.5	
D 128	1170,570L	4703	0.5	0.79	1.4	
D 129	1140,570L	4704	0.5	0.94	1.4	
D 130	1110,570L	4705	0.5	1.8	3.3	
D 131	1080,570L	5124	0.5	2.6	3.8	Partial Excavation
D 132	1050,570L	5125	0.5	1.4	1.7	Partial Excavation
D 133	1020,570L	4598	0.5	1	1.5	
D 134	990,570L	4599	0.5	0.87	0.88	
D 135	960,570L	4590	0.5	0.48	1.2	
D 136	930,570L	4591	0.5	1.5	1.6	
D 137	900,570L	4140	0.65	1.4	3.2	
D 138	870,570L	4141	1.86	1.9	3.1	
D 139	840,570L	4142	1.14	0.64	2.2	
D 140	780,554L; 797,570L; 810,570L; 810,540L; 780,540L	4143	0.5	1.9	3	
D 141	765,540L; 780,554L; 780,540L 684,540L; 660,540L;	4144	0.5	3.1	4.7	
D 142	660,570L; 667,570L	4032	0.5	1.1	0.97	
D 143	660,570L	4033	0.5	1.7	3	
D 144	630,570L	4034	0.5	1.2	1	
D 145	600,570L	4035	0.5	2.1	2.5	
D 146	570,570L	4036	0.5	2.4	5.9	
D 147	540,570L	4037	0.5	1.4	2.1	
D 148	510,570L	4038	0.5	2.8	3.6	
D 149	480,570L	4039	0.5	3.6	5.5	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 150	450,570L	4040	0.5	2.1	4.7	
D 151	420,570L	5025	0.5	3.4	4.6	
D 152	390,570L	3717	0.5	2.2	3.2	
D 153	360,570L	3718	0.5	2.2	3	
D 154	330,570L	3719	0.5	1.9	3.2	
D 155	300,570L	3720	0.5	1.5	2.3	
D 156	270,570L	3721	0.5	2.4	3.6	
D 157	240,570L	3722	0.5	3.2	6.3	
D 158	210,570L	3978	0.5	2.2	5.3	
D 159	180,570L	3979	0.5	1.6	4.4	
D 160	150,570L	3662	0.5	3.6	6.4	
D 161	120,570L	3663	0.5	3.4	6.1	
D 162	90,570L	3664	0.5	3.7	8.9	
D 163	60,570L	3665	0.5	1.9	2.5	
D 164	30,570L	3666	0.5	1	1.9	
D 165	1230,570L; 1200,570L; 1200,600L; 1225,600L; 1228,590L	4706	0.5	1.4	1.5	
D 166	1200,600L	4707	0.5	0.82	2.5	
D 167	1170,600L	4708	0.5	1.1	2.1	
D 168	1140,600L	4709	0.5	1.1	1.9	
D 169	1110,600L	4834	0.5	2.1	2.1	Partial Excavation
D 170	1080,600L	5126	0.5	2.8	3.3	Partial Excavation
D 171	1050,600L	5127	0.5	1.1	2	Partial Excavation
D 172	1020,600L	4642	0.5	1.4	1.2	
D 173	990,600L	4643	0.5	1	0.81	
D 174	960,600L	4592	0.5	0.75	1.1	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 175	930,600L	4593	0.5	2.3	2	
D 176	900,600L	4594	0.65	2.6	5.6	
D 177	870,600L	4145	1.86	1.8	4.3	
D 178	810,582L; 828,600L; 840,600L; 840,570L; 810,570L	4146	1.14	2	3.6	
D 179A	797,570L; 810,582L; 810,570L	4093	0.5	1.4	2	E. side of Borrow Site
D 179B	667,570L; 660,570L; 660,582L 660,582L; 660,570L; 630,570L;	4147	0.5	1.9	1.9	W. side of Borrow Site
D 180	630,600L; 650,600L	4094	0.5	1.3	1.4	
D 181	630,600L	4095	0.5	0.86	1.9	
D 182	600,600L	4096	0.5	2	3.2	
D 183	570,600L	4097	0.5	0.88	2.8	
D 184	540,600L	4098	0.5	2	3.9	
D 185	510,600L	4099	0.5	2.1	4.2	
D 186	480,600L	4100	0.5	1.1	2.6	
D 187	450,600L	4101	0.5	1.8	2.5	
D 188	420,600L	5026	0.5	1.6	2.8	
D 189	390,600L	5027	0.5	1.8	2.7	
D 190	360,600L	5028	0	1.4	1.2	Not Excavated, Verified Clean
D 191	300,575L; 330,630L; 330,570L; 300,570L	5029	0	1.7	0.9	Not Excavated, Verified Clean
D 192	300,575L; 300,570L; 270,570L; 270,600L; 290,600L	5030	0	1.3	1.4	Not Excavated, Verified Clean
D 193	270,600L	5031	0	1.4	1.9	Not Excavated, Verified Clean
D 194	240,600L	5032	0	1.2	1.2	Not Excavated, Verified Clean
D 195	210,600L	5023	0	2	2.5	Not Excavated, Verified Clean
D 196	180,600L	5024	0	1.7	2.5	Not Excavated, Verified Clean
D 197	150,600L; 150,570L; 120,570L; 120,575L; 125,575L	5033	0	1.9	2	Not Excavated, Verified Clean
D 198	120,575L; 120,570L; 90,570L; 90,575L	5034	0	1	0.77	Not Excavated, Verified Clean

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
D 199	90,600L	5036	0	0.97	1.6	Not Excavated, Verified Clean
D 200	60,600L	5035	0	1	1.5	Not Excavated, Verified Clean
D 201	30,600L	5038	0	1.1	1.5	Not Excavated, Verified Clean

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
E 1	1225,600L; 1200,600L; 1200,630L; 1225,630L	4710	0.5	0.66	1.7	Partial Excavation
E 2	1200,630L	4711	0.5	1.4	2.7	
E 3	1170,630L	4712	0.5	1.1	1.8	Partial Excavation
E 4	1140,630L	4835	0.5	1.4	1.5	Partial Excavation
E 5	1110,630L	4836	0.5	2.2	2.2	Partial Excavation
E 6	1080,630L	5128	0	1.8	2.2	Not Excavated, Verified Clean
E 7	1050,630L	5129	0.5	1.4	1.9	
E 8	1020,630L	4644	0.5	1.2	1.1	
E 9	990,630L	4645	0.5	0.85	0.65	
E 10	960,600L; 930,600L; 930,630L; 939,630L; 946,828L; 947,630L; 960,630L	4595	0.5	0.66	1.1	
E 11	930,630L	4596	0.5	0.82	1.2	
E 12	900,630L	4597	0.65	1.7	2.5	
E 13	840,612L; 859,630L; 870,630L; 870,600L; 840,600L	4185	1.86	2.8	3.4	
E 14	828,600L; 840,612L; 840,600L	4149	1.86	2.4	5.1	
E 15	650,600L; 630,600L; 630,630L; 630,635L	4150	0.5	1.2	1.4	
E 16	630,630L	4151	0.5	0.83	1.8	
E 17	600,630L	4152	0.5	1	2.1	
E 18	570,630L	4153	0.5	3.6	7.6	
E 19	540,630L	4102	0.5	3	7.5	
E 20	510,630L	4103	0.5	1.5	3	
E 21	480,630L	4104	0.5	2.5	5.4	
E 22	450,630L	4105	0.5	2.1	3.7	
E 23	420,630L	4994	0.5	3.7	7.2	
E 24	390,630L	4995	0.5	1.5	2.4	
E 25	360,630L	4997	0.5	1.4	0.88	Partial Excavation

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
E 29	225,600L; 210,600L; 210,625L; 225,625L	5040	0	0.55	1.4	Not Excavated, Verified Clean
E 30	210,625L; 210,600L; 180,600L; 180,625L	5039	0	1.1	1	Not Excavated, Verified Clean
E 31	180,625L; 180,600L; 150,600L; 175,625L	5041	0	1.6	1.8	Not Excavated, Verified Clean
E 34	90,625L; 90,600L; 50,600L; 75,625L	5042	0	0.93	1.5	Not Excavated, Verified Clean
E 36	25,600L; 0.0,600L; 0.0,630L; 25,630L	5044	0.5	1.3	2.5	
E 37	1225,630L; 1200,630L; 1200,660L; 1226,660L; 1226,645L; 1225,646L	4812	0.5	1.1	1.4	Partial Excavation
E 38	1200,660L	4813	0.5	0.72	1.1	Partial Excavation
E 39	1170,660L	4814	0	1.5	1.2	Not Excavated, Verified Clean
E 40A	1140,660L	4837	0.5	0.28	1.3	Duplicate, NE part of grid
E 40B	1140,660L	4838	0	1.9	1.1	Not Excavated, Verified Clean Duplicate, SW part of grid
E 41	1110,660L	4839	0.5	1.2	1.4	Partial Excavation
E 42	1080,660L	5130	0.5	1.4	1.3	Partial Excavation
E 43	1050,660L	5131	0.5	1.5	3.5	
E 44	1020,660L	4840	0.5	2	2	
E 45	990,660L	4646	0.5	0.99	1.6	
E 46	947,630L; 960,674L; 960,630L	4647	0.5	1.2	2.3	Partial Excavation
E SS1	939,630L; 900,630L; 900,660L; 915,660L; 919,635L	4526	0.5	1.7	1.1	Partial Excavation
E SS2	859,630L; 890,660L; 900,660L; 900,630L	4527	0.5	2.1	4.6	
E 47	630,635L; 630,630L; 600,630L; 600,660L; 616,660L	4154	1.8	1.1	2.1	
E 48	600,660L	4155	2.7	1.6	1.2	
E 49	570,660L	4156	3.6	2.3	4.4	
E 50	540,660L	4106	4	3.3	5.6	
E 51	510,660L	4107	4.8	2.6	4.9	
E 52	480,660L	4108	4.9	2.6	3.3	
E 53	450,660L	4109	0.5	2	3.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
E 54	420,660L	4999	0.5	4.7	8	
E 55	390,660L	5000	0.5	4.7	7.7	
E 56	360,660L; 360,630L; 330,630L; 345,660L	5001	0.5	1.1	1.3	Partial Excavation
E 67	25,660L; 25,630L; 0.0,630L; 0.0,660L	5055	0.5	1	2.5	
E 68	1226,660L; 1200,660L; 1200,690L; 1209,690L; 1225,670L	4815	0.5	2.1	1.9	Partial Excavation
E 69	1200,690L	4816	0.5	1	1.2	Partial Excavation
E 70	1170,690L	4817	0	0.6	0.89	Not Excavated, Verified Clean
E 71	1125,690L; 1140,690L; 1140,660L; 1110,660L; 1110,681L; 1125,675L	4841	0	1.3	1.3	Not Excavated, Verified Clean
E 72	1110,681L; 1110,660L; 1080,660L; 1080,693L	5132	0	1.1	1.9	Not Excavated, Verified Clean
E 73	1080,690L	5133	0.5	3	3.5	Partial Excavation
E 74	1050,690L	5134	0.5	1.4	1.7	
E 75	1020,690L	4842	0.5	1.9	2.7	
E 76	960,674L; 965,690L; 990,690L; 990,660L; 960,660L	4648	0.5	1.7	1.8	
E SS3	915,660L; 900,660L; 900,690L; 910,690L	4528	0.5	1.3	1.3	Partial Excavation
E SS4	900,660L; 900,690L; 858,690L; 890,660L	4529	0.5	1.6	2.6	
E 77	616,660L; 600,660L; 600,688L	4157	4.9	1.4	1.3	
E 78	600,688L; 600,660L; 570,660L; 570,660L; 599,690L	4158	4.9	1.6	1.7	
E 79	570,690L	4159	4.9	2.4	2.4	
E 80	540,690L	4110	4.9	2.9	4.3	
E 81	510,690L	4111	4.9	2	3.8	
E 82	480,690L	4112	4.9	2.9	5	
E 83	450,690L	4113	0.5	3.8	5.2	
E 84	420,690L	5002	0.5	6	11	
E 85	390,690L	5003	2.25	3	3.4	
E 86	350,690L; 360,690L; 360,660L; 345,660L	5004	2.25	1.2	1.5	
E 96	65,690L; 65,675L; 30,675L; 30,690L	5047	0.5	0.73	1.4	Partial Excavation

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
E 97	30,690L; 30,675L; 25,675L; 25,660L; 0.0,660L; 0.0,690L	5049	0.5	1.4	3.1	Partial Excavation
E 99	1209,690L; 1170,690L; 1170,732L	5060	0.5	1.7	2.3	Partial Excavation
E 100	1170,720L	4818	0.5	1.1	1.8	Partial Excavation
E 101	1140,720L; 1140,690L; 1125,690L; 1125,720L	4819	0.5	1.3	1.1	Partial Excavation
E 146A	1080,693L; 1080,690L; 1050,690L; 1050,708L; 1060,702L	4760	0.5	1.5	1.9	Partial Excavation
E 147	1050,708L; 1050,690L; 1020,690L; 1020,720L; 1031,720L	5137	0.5	0.74	2	
E 148	1020,720L	4649	0.5	3	4.5	
E 149	965,690L; 990,690L; 990,720L; 974,720L	4650	0.5	1.8	2.5	
E SS5	906,716L; 910,690L; 900,690L; 900,720L; 910,720L	4530	0.5	1.5	1.2	Partial Excavation
E SS6	900,720L	4531	0.5	1.7	2.2	
E SS7	858,690L; 825,720L; 870,720L; 870,690L	4532	0.5	3.4	5	
E 102	599,690L; 570,690L; 570,720L; 582,720L	4461	4.9	2	1.8	
E 103	570,720L	4462	4.9	2	4.9	
E 104	540,720L	4463	4.9	2.4	2.9	
E 105	510,720L	4123	4.9	2	5.5	
E 106	480,720L	4122	4.9	1.7	3.4	
E 107	450,720L	4464	0.5	3.1	4.5	
E 108	420,720L	5005	0.5	4.7	8.2	
E 109	390,720L	5006	4	3.8	6.3	
E 110	350,720L; 360,720L; 360,690L; 350,690L	5007	4	1.3	0.71	
E 119	65,720L; 65,690L; 60,690L; 60,720L	5048	0	1.2	3.1	Not Excavated, Verified Clean
E 120	60,720L	5140	0.5	1.4	2.1	Partial Excavation
E 121	30,720L	5051	0.5	1.9	1.8	Partial Excavation
E 124	1170,732L; 1170,720L; 1140,720L; 1140,750L; 1153,750L	5059	0.5	1.8	1.9	Partial Excavation Duplicate Verification
E 124	1170,732L; 1170,720L; 1140,720L; 1140,750L; 1153,750L	4820	0.5	1.2	1.3	Partial Excavation Duplicate Verification

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
E 125	1140,750L; 1140,720L; 1125,720L; 1125,725L; 1100,750L	4821	0.5	1.4	1.6	Partial Excavation
E 150	1031,720L; 974,720L; 975,725L; 1005,733L; 1013,751L; 1019,748L; 1019,728L	4651	0.5	2.2	3.2	
E 151	1031,720L; 974,720L; 975,725L; 1005,733L; 1013,751L; 1019,748L; 1019,728L	4652	0.5	5.3	9.1	
E SS8	910,720L; 900,720L; 900,750L; 925,749L; 919,729L	4533	0.5	5.9	1.7	Partial Excavation
E SS9	900,750L	4534	0.5	1.8	1.5	
E SS10	870,750L	4535	0.5	1.5	3.8	
E SS11	825,720L; 793,750L; 810,750L; 840,750L; 840,720L	4536	0.5	2.4	2	Partial Excavation Duplicate Verification
E 146B	825,720L; 793,750L; 810,750L; 840,750L; 840,720L	5136	0.5	1.2	3.1	Partial Excavation Duplicate Verification
E 126	582,720L; 570,720L; 570,750L; 609,750L; 578,725L	4465	4.9	1.6	2.4	
E 127	570,750L	4466	4.9	2.4	4.7	
E 128	540,750L	4124	4.9	2.9	4.8	
E 129	510,750L	4125	4.9	1.3	3.5	
E 130	480,750L	4467	4.9	0.61	0.97	
E 131	450,750L	4468	0.5	3	6.9	
E 132	420,750L	5008	0.5	4.3	9.1	
E 133	390,750L	5009	4	1.7	2.9	
E 134	350,750L; 360,750L; 360,720L; 350,720L	5010	4	1.3	1.7	
E 143	65,750L; 65,720L; 60,720L; 60,750L	5050	0	1	2.6	Not Excavated, Verified Clean
E 144	60,750L	5141	0.5	0.98	1.4	Partial Excavation
E 145	30,750L	5053	0.5	1.7	2.6	Partial Excavation

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
F 3	1153,750L; 1110,750L; 1110,796L	5061	0.5	1.3	1.8	Partial Excavation
F 4	1110,780L	5063	0.5	1.2	2.3	Partial Excavation
F 5	1080,750L; 1056,780L; 1080,780L	4795	0.5	1.1	2.3	
F SS1	925,749L; 900,750L; 900,791L; 918,778L	4537	0.5	0.99	1.2	Partial Excavation
F SS2	900,780L	4538	0.5	1.5	1.8	
F SS3	870,780L	4903	0.5	4	7	
F SS4	840,780L	4907	0.5	2.2	3.3	
F 6	793,750L; 780,762L; 780,780L; 810,780L; 810,750L	4761	0	1.7	1.2	Not Excavated, Verified Clean
F 7A	780,762L; 761,780L; 780,780L	4762	0	1.5	0.83	Not Excavated, Verified Clean W. side
F 7B	630,767L; 630,780L; 646,780L	4763	4.9	0.55	1.4	E. side
F 8	609,750L; 600,750L; 600,780L; 630,780L; 630,767L	4469	4.9	0.68	1.6	
F 9	600,780L	4470	4.9	1	1.8	
F 10	570,780L	4126	4.9	1.2	1.5	
F 11	540,780L	4127	4.9	1.01	1.8	
F 12	510,780L	4128	4.9	1.1	1.9	
F 13	480,780L	4471	4.9	1.3	2.2	
F 14	450,780L	4472	0.5	2.4	3.5	
F 15	420,780L	5011	0.5	2	4.6	
F 16	390,780L	5012	4	4.8	7.6	
F 17	360,780L; 360,750L; 350,750L; 350,757L; 343,780L	5013	4	1.2	2.5	
F 19	290,775L; 275,775L; 270,780L; 290,780L	5142	0	0.87	1.5	Not Excavated, Verified Clean
F 22	210,780L; 210,775L; 175,775L; 175,780L	5119	0	1.5	2.5	Not Excavated, Verified Clean
F 26	65,775L; 65,750L; 60,750L; 60,780L; 70,780L	5045	0	0.85	2.1	Not Excavated, Verified Clean
F 27	60,780L	5022	0.5	1	1.7	Partial Excavation
F 28	30,780L	5052	0.5	1.5	2.4	Partial Excavation

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
F 31	1110,796L; 1110,780L; 1080,780L; 1080,828L	4857	0.5	2.2	2.6	Partial Excavation
F 32	1056,780L; 1080,780L; 1080,810L; 1050,810L; 1050,787L	5067	0.5	1	1.9	Duplicate Verification
F 32	1056,780L; 1080,780L; 1080,810L; 1050,810L; 1050,787L	4856	0.5	1.5	2.1	Duplicate Verification
F SS11	1050,787L; 1032,810L; 1050,810L	4859	0.5	1.6	2.6	
F SS5	900,791L; 900,780L; 870,780L; 870,813L	4539	0.5	1.3	0.85	Partial Excavation Duplicate Verification
F SS6	900,791L; 900,780L; 870,780L; 870,813L	4540	0.5	2.4	3.4	Partial Excavation Duplicate Verification
F SS7A	870,810L	4541	0.5	0.92	2	Duplicate W. side of grid
F SS7B	870,810L	4791	0.5	1.9	2.6	Duplicate E. side of grid
F SS8	840,810L	4792	0.5	1.7	1.3	Duplicate Verification
F 33	840,810L	4796	0.5	1.9	1.1	Duplicate Verification
F 34	810,810L	4797	0.5	1.3	1.1	Partial Excavation
F 35	761,780L; 750,790L; 750,810L; 780,810L; 780,780L	4764	0	1.1	1.4	Not Excavated, Verified Clean
F 36	750,790L; 729,810L; 750,810L	4765	0	1.4	1.2	Not Excavated, Verified Clean
F 37	660,791L; 660,810L; 684,810L 646,780L; 630,780L; 630,810L;	4473	0.5	0.87	0.71	
F 38	660,810L; 660,791L	4475	4.9	1.3	2	
F 39	630,810L	4474	4.9	1.8	2.3	
F 40	600,810L	4476	4.9	2.2	2.4	
F 41	570,810L	4477	4.9	1.5	2.1	
F 42	540,810L	4478	4.9	1.6	2.8	
F 43	510,810L	4129	4.9	3.6	7.8	
F 44	480,810L	4479	4.9	1.9	2.9	
F 45	450,810L	4480	0.5	2.4	2.9	
F 46	420,810L	4996	0.5	1.9	3.1	
F 47	390,810L	5014	4	1.4	2.4	
F 48	343,780L; 337,797L; 336,804L; 330,804L; 330,810L; 360,810L; 360,780L	5015	4	0.79	2.3	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
F 49	330,810L; 330,804L; 300,804L; 300,810L	5046	0.5	1.5	2.4	
F 50	300,810L; 300,804L; 290,804L; 290,780L; 270,780L; 270,810L	4998	0.5	1.8	2.3	Partial Excavation
F 51	270,810L; 270,780L; 245,805L; 240,805L; 240,810L	5074	0.5	1.4	1.9	Partial Excavation
F 53	210,810L	5077	0.5	0.39	1.3	Partial Excavation
F 54	180,810L; 180,795L; 150,795L; 150,810L	5037	0.5	0.83	0.64	
F 55	150,810L; 150,795L; 120,795L; 120,810L	5043	0.5	0.66	0.94	
F 156	120,810L; 120,795L; 90,795L; 90,810L	5058	0.5	1.1	2.3	
F 157	90,810L; 90,795L; 55,794L; 70,780L; 60,780L; 60,810L	5075	0.5	0.66	1.9	Partial Excavation
F 158	60,810L	5021	0.5	1.1	1.7	Partial Excavation
F 159	30,810L	5056	0.5	0.71	2.1	Partial Excavation
F 162	1080,828L; 1080,810L; 1050,840L; 1050,860L	5068	0.5	1.5	2.1	
F SS13	1080,810L; 1050,810L; 1050,840L	4881	0.5	2.8	3.3	
F SS12	1050,810L; 1032,810L; 1031,811L; 1020,809L; 1020,840L; 1050,840L	4860	0.5	2	4.2	
F SS14	1020,809L; 999,806L; 995,810L; 990,815L; 990,840L; 1020,840L	4882	0.5	5.6	8	
F SS15	990,815L; 967,840L; 990,840L	4883	0.5	2.7	4.5	
F SS9	870,813L; 870,810L; 840,810L; 840,835L	4793	0.5	1.2	1	Partial Excavation
F SS10	840,835L; 840,810L; 810,810L; 810,840L; 833,840L	4794	0.5	2.2	1.5	Duplicate Verification
F 163	840,835L; 840,810L; 810,810L; 810,840L; 833,840L	4798	0.5	2.1	2.3	Duplicate Verification
F 164	810,840L	4799	0.5	1.2	1.7	Partial Excavation
F 165	780,840L	4766	0	1.5	1.5	Not Excavated, Verified Clean
F 166	725,810L; 720,818L; 720,840L; 750,840L; 750,810L	4767	0	1.4	1.8	Not Excavated, Verified Clean
F 167	720,818L; 720,840L; 690,840L; 690,815L; 710,830L	4714	0.5	1.6	1.5	Partial Excavation
F 168	684,810L; 660,810L; 660,840L; 690,840L; 690,815L	4481	0.5	0.91	2.5	
F 169	660,840L	4482	4.9	2.1	2.9	
F 170	630,840L	4493	4.9	1.3	2.8	
F 171	600,840L	4484	4.9	1.6	2.1	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
F 172	570,840L	4485	4.9	1.6	2.8	
F 173	540,840L	4486	4.9	1.5	3.8	
F 174	510,840L	4487	4.9	2.4	2.3	
F 175	480,840L	4715	4.9	1.4	4.1	
F 176	450,840L	4716	0.5	1.3	4.3	
F 177	420,840L	5016	0.5	1.5	2.5	
F 178	390,840L	5017	2.25	1	1.8	
F 179	360,840L	5018	2.25	1.5	2	
F 180	330,840L	5019	2.25	0.7	1.8	
F 181	300,840L	5020	4	0.87	1	
F 182	270,840L	5079	4	0.92	1.9	
F 183	240,810L; 225,825L; 210,810L; 210,840L; 240,840L	5080	2.25	1.4	2.1	
F 184	210,840L	5081	0.5	0.48	1.5	
F 185	180,840L; 175,840L; 180,835L; 150,835L; 150,810L; 180,810L	5076	0.5	1.5	2.8	
F 186	150,835L; 150,810L; 120,810L; 120,835L	5078	0.5	1.4	1.5	
F 187	120,835L; 120,810L; 90,810L; 90,835L	5062	0.5	1.2	2	
F 188	90,835L; 90,810L; 60,810L; 60,835L	5083	0.5	1.7	1.2	
F 189	60,840L	5054	0.9	0.89	1	
F 190	30,840L	5057	0.7	1.9	3.9	
F SS16	1050,860L; 1050,840L; 1020,840L; 1020,870L; 1042,870L; 1045,867L	5064	0.5	1.5	2.4	Duplicate Verification
F SS16	1050,860L; 1050,840L; 1020,840L; 1020,870L; 1042,870L; 1045,867L	4884	0.5	1.7	2.4	Duplicate Verification
F SS17	1020,870L	4885	0.5	0.84	1.4	
F SS18	967,840L; 961,847L; 970,870L; 990,870L; 990,840L	4886	0.5	2.4	3.2	
F 191	825,840L; 810,840L; 810,870L; 825,870L	4768	0.5	1.9	1.5	Partial Excavation
F 192	810,870L	4769	0.5	1.6	2.3	Partial Excavation

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
F 193	780,870L	4770	0	1.1	1.4	Not Excavated, Verified Clean
F 194	750,870L; 750,840L; 720,840L; 720,870L; 727,870L; 730,865L; 732,870L	4771	0.5	1.7	1.4	Partial Excavation
F 195	720,870L	4663	0.5	1	2	
F 196	690,870L	4717	0.5	1.3	3.4	
F 197	660,870L	4718	4.9	1.8	2.7	
F 198	630,870L	4664	4.9	1.3	2.2	
F 199	600,870L	4665	4.9	1.7	3.7	
F 200	570,870L	4666	4.9	1.7	2.5	
F 201	540,870L	4667	4.9	1.5	3.5	
F 202	510,870L	4786	4.9	0.6	2	
F 203	480,870L	4787	4.9	1.8	1.3	
F 204	450,870L	4668	0.5	3	2.3	
F 205	420,870L	4669	0.5	3.6	6.5	
F 206	390,870L	4670	0.5	2	3.6	
F 207	360,870L	4114	0.5	1.8	1.9	
F 208	330,870L	4115	0.5	0.88	1.9	
F 209	300,870L	4116	4	1.8	2.4	
F 210	270,870L	4117	4	1.9	2	
F 211	240,870L	4118	4	1.1	1.5	
F 212	210,850L; 175,850L; 175,840L; 210,840L	5082	0	1.7	3.4	Not Excavated, Verified Clean
F 217	60,870L	4435	2.75	2.4	2.9	
F 218	30,870L	4436	2	1.6	2	
F SS19	1042,870L; 1020,870L; 1020,892L	5065	0.5	1.3	3.1	
F SS20	1020,892L; 1020,870L; 990,870L; 990,900L; 1011,901L	4888	0.5	2.3	2.6	
F SS21	970,870L; 990,870L; 990,900L; 982,900L	4887	0.5	2.3	5.4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g)		COMMENTS
				INITIAL	FINAL	
F 219	825,870L; 810,870L; 810,900L; 850,900L; 825,875L	4772	0	2	2.7	Not Excavated, Verified Clean
F 220	810,900L	4773	0	1.2	2	Not Excavated, Verified Clean
F 221	780,900L	4774	0	1.4	1.7	Not Excavated, Verified Clean
F 222	732,870L; 750,914L; 750,870L 727,870L; 690,870L;	5066	0	1	1.8	Not Excavated, Verified Clean
F 223	690,912L; 711,895L	4671	0.5	0.91	2.6	
F 224	685,918L; 690,912L; 690,870L; 660,870L; 660,886L; 668,877L	4672	0.5	1.2	2.8	
F 225	660,886L; 660,870L; 630,870L; 630,900L; 647,900L	4673	4.9	1.4	1.7	
F 226	630,900L	4674	4.9	1.4	1.9	
F 227	600,500L	4675	4.9	2.2	3.8	
F 228	570,900L	4676	4.9	2.2	3.8	
F 229	540,900L	4677	4.9	2.5	4.8	
F 230	510,900L	4788	4.9	1.8	3.1	
F 231	480,900L	4789	4.9	2.3	3	
F 232	450,900L	4678	4.9	3.2	5.3	
F 233	420,900L	4679	4.9	2.4	5.2	
F 234	390,900L	4680	4.9	2.3	2.5	
F 235	360,900L	4119	4.9	0.72	1.3	
F 236	330,900L	4120	4.9	0.69	2.4	
F 237	300,900L	4121	4	0.74	1.2	
F 238	270,900L	4062	4	1.6	3	
F 239	240,900L	4061	4	1.2	1.5	
F 245	60,900L	4437	2.75	3.4	5.6	
F 246	30,900L	4438	2	1.9	2.6	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G SS26	1011,901L; 984,900L; 992,918L; 999,912L	4896	3.75	4	4.8	
G SS19	960,919L; 930,909L; 930,930L; 960,930L	4890	3.75	1.6	2.5	
G SS20	930,909L; 922,907L; 900,908L; 900,930L; 930,930L	4889	3.75	2.1	3.1	
G SS21	900,908L; 870,909L; 870,930L; 900,930L	4892	3.75	2.2	2.9	
G SS22	870,909L; 863,909L; 850,900L; 840,900L; 840,930L; 870,930L	4891	3.75	3.4	5.5	Partial Excavation Duplicate Verification
G 1	870,909L; 863,909L; 850,900L; 840,900L; 840,930L; 870,930L	4776	3.75	1.2	1.4	Partial Excavation Duplicate Verification
G 2	840,930L	4777	3.75	1.1	2.2	Partial Excavation
G 3	810,930L	4778	0	1	2.1	Not Excavated, Verified Clean
G 139	780,930L	4782	0	1.3	1	Not Excavated, Verified Clean
G 138	647,900L; 630,900L; 625,924L	4720	4.9	1.3	1.6	
G 4	625,924L; 630,900L; 600,900L; 600,921L	4719	4.9	0.75	2.1	
G 5	600,921L; 600,900L; 570,900L; 570,930L; 578,930L; 584,924L	4681	4.9	1	1.9	
G 6	570,930L	4682	4.9	1.7	2.3	
G 7	540,930L	4683	4.9	1.3	2.9	
G 8	510,930L	4684	4.9	1.9	3.2	
G 9	480,930L	4685	4.9	2.9	5.1	
G 10	450,930L	4686	4.9	1.7	2.2	
G 11	420,930L	4622	4.9	0.96	1.5	
G 12	390,930L	4623	4.9	1.3	1.5	
G 13	360,930L	4624	4.9	1.4	1.4	
G 14	330,930L	4625	4.9	0.86	1.5	
G 15	300,930L	4626	4	1.2	2.1	
G 16	270,930L	4065	4	0.9	2.6	
G 17	240,930L	4069	4	1.2	2.4	
G 18	210,930L; 210,900L; 200,925L; 200,930L	4064	0	0.79	2.4	Not Excavated, Verified Clean

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G 23	60,930L	4160	2.75	0.46	2.4	
G 24	30,930L	4161	2	0.8	1.6	
G SS27	960,919L; 960,950L; 981,931L	5070	3.75	3.4	4.8	Duplicate Verification
G SS27	960,919L; 960,950L; 981,931L	4904	3.75	1.8	3	Duplicate Verification
G SS23	960,950L; 960,930L; 930,930L; 930,960L; 949,960L	4894	3.75	3.5	5.6	
G SS24	930,960L	4893	3.75	1.1	1.3	
G 25	900,960L	4905	3.75	0.73	0.78	
G 26	870,960L	4906	3.75	0.96	1.4	
G 27	840,960L	4779	3.75	1.2	1.2	
G 28	780,940L; 780,960L; 810,960L; 810,930L; 801,930L; 803,932L; 780,940L	4780	3.75	0.93	1.6	Partial Excavation
G 29	750,950L; 750,960L; 780,960L; 780,940L; 756,948L	4781	3.75	0.59	0.71	Partial Excavation
G 30	750,914L; 727,930L; 727,960L; 750,960L	4783	0	1.1	1.2	Not Excavated, Verified Clean
G 31	727,930L; 688,957L; 680,960L; 727,960L	5073	0	2.6	4.8	Not Excavated, Verified Clean
G 35	541,960L; 578,935L; 541,930L	4687	4.9	1.6	2.5	
G 36	541,960L; 578,935L; 541,930L	4688	4.9	1.2	1.9	
G 37	541,960L; 541,930L; 510,930L; 510,954L	4689	4.9	1	1.5	
G 38	510,954L; 510,930L 480,930L; 480,948L	4690	4.9	1.5	1.8	
G 39	480,948L; 480,930L; 450,930L; 450,960L; 475,960L; 472,946L	4691	4.9	1.9	2.8	
G 40	450,960L	4692	4.9	1.4	1.5	
G 41	420,960L	4627	4.9	0.71	1.5	
G 42	390,960L	4628	4.9	1.5	1.7	
G 43	360,960L	4629	4.9	0.79	1.6	
G 44	330,960L	4630	4.9	1.1	2.5	Duplicate Verification
G SS1	330,960L	4613	4.9	1.6	2.2	Duplicate Verification
G SS2	300,960L	4614	4	2.1	2.7	Duplicate Verification

RF-493
SOIL VERIFICATION DATA

Ra-266 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G 45	300,960L	4059	4	1.4	1.3	Duplicate Verification
G 46	270,960L	4066	4	0.79	1.6	
G 47	240,960L	4063	4	0.62	1.7	
G 48	200,930L; 200,960L; 210,960L; 210,930L	4060	0	0.44	1.7	Not Excavated, Verified Clean
G 53	60,960L	4162	2.75	1.8	1.9	
G 54	30,960L	4163	2	1.2	2	
G SS25	949,960L; 900,960L; 900,990L; 915,990L; 933,977L; 944,965L	4895	3.75	1.6	2.9	
G 55	900,990L	4897	3.75	1.6	2.4	
G 56	870,990L	4898	3.75	1.4	2.5	
G 57	840,990L	4899	3.75	1.3	2.4	
G 58	810,990L	4900	3.75	0.9	1.4	
G 59	780,990L	4784	3.75	0.78	0.95	
G 60	750,990L	4785	3.75	0.68	0.58	Partial Excavation
G 61	720,990L	4743	0	1.2	1.7	Not Excavated, Verified Clean
G 62	680,960L; 660,968L; 660,990L; 690,990L; 690,960L	4744	0	1.2	0.72 7.2	MHA 10/14/96 Not Excavated, Verified Clean
G 63	660,968L; 633,979L; 614L,990L; 660,990L	4745	0	1.1	1.3	Not Excavated, Verified Clean Duplicate Verification
G 64	660,968L; 633,979L; 614L,990L; 660,990L	4746	0	0.81	0.59	Not Excavated, Verified Clean Duplicate Verification
G 68	481,990L; 475,960L; 450,960L; 450,990L	4693	4.9	1.2	2.2	Duplicate Verification
G 69	481,990L; 475,960L; 450,960L; 450,990L	4694	4.9	1.5	2.3	Duplicate Verification
G 70	450,990L	4695	4.9	4.3	5.1	
G 71	420,990L	4631	4.9	1.4	2	
G 72	390,990L	4632	4.9	1.7	1.9	
G 73	360,990L	4633	4.9	1.8	3.7	Duplicate Verification
G SS3	360,990L	4615	4.9	3.1	5	Duplicate Verification
G SS4	330,990L	4616	4.9	2.2	2.1	
G SS5	300,990L	4617	4	1.7	1.3	Duplicate Verification

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G 74	300,990L	4068	4	0.96	1.3	Duplicate Verification
G 75	270,990L	4042	4	0.88	2	
G 76	240,990L	4043	4	0.97	2.9	
G 78	210,975L; 210,960L; 200,960L; 200,975L	4067	0	0.57	1.4	Not Excavated, Verified Clean
G 83	60,990L	4164	2.75	2.2	3.3	
G 84	30,990L	4135	2	1.3	2.6	
G 85	930,995L; 930,990L; 900,990L; 900,1028L	5069	3.75	1.1	2.7	
G 86	915,990L; 870,990L; 870,1020L; 884,1020L; 906,997L	4902	3.75	1.6	2.4	
G 87	870,1020L	4865	3.75	1.8	2.5	
G 88	840,1020L	4866	3.75	1.7	2.3	
G 89	810,1020L	4867	3.75	1.4	1.8	
G 90	780,1020L	4868	3.75	1.6	1.9	
G 91	750,1020L	4869	3.75	1	1.2	Partial Excavation
G 92	720,1020L	4749	0	1.1	1.6	Not Excavated, Verified Clean
G 93	690,1020L	4750	0	1.2	1.1	Not Excavated, Verified Clean
G 94	660,1020L	4751	0	1.1	0.93	Not Excavated, Verified Clean
G 95	614,990L; 600,998L; 600,1020L; 630,1020L; 630,990L	4752	0	1.2	1.2	Not Excavated, Verified Clean
G 96	600,998L; 581,1009L; 570,1005L; 570,1020L; 600,1020L	4753	0	0.66	1.6	Not Excavated, Verified Clean
G 97	570,1005L; 552,999L; 540,999L; 540,1020L; 570,1020L	5138	0	1.2	1.7	Not Excavated, Verified Clean
G 98	540,999L; 510,998L; 510,1020L; 540,1020L	3993	0.5	1.4	1.6	Partial Excavation Duplicate Verification
G SS7	540,999L; 510,998L; 510,1020L; 540,1020L	5139	0.5	2.7	2.6	Partial Excavation Duplicate Verification
G SS8	510,998L; 482,997L; 481,990L; 480,1020L; 510,1020L	4852	0.5	1.6	2.1	Partial Excavation
G SS9	481,990L; 450,990L; 450,1020L; 480,1020L;	4853	0.5	2.2	2.2	
G SS10	450,1020L	4854	0.5	2.1	4.1	
G SS11	420,1020L	4618	0.5	2.3	3.7	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G SS12	390,1020L	4619	0.5	7.4	12.3	
G SS13	360,1020L	4620	0.5	3.3	5.9	
G SS14	300,1020L	4621	0.5	1.2	1.3	
G 99	300,1020L	3994	4	1.1	1.4	
G 100	270,1020L	4044	4	2	2	
G 101	240,1020L	4045	4	1.5	2.9	
G 107	60,1020L	4166	2.75	1.6	3.5	
G 108	30,1020L	4167	1.6	1.8	3.4	
G 110	884,1020L; 870,1020L; 870,1050L; 879,1025L	5071	3.75	1.8	2.9	
G 111	870,1050L	4901	3.75	3.6	6	
G 112	840,1050L	4870	3.75	1.7	1.7	
G 113	810,1050L	4871	3.75	1.7	2.3	
G 114	780,1050L	4872	3.75	2.3	3	
G 115	750,1050L	4873	3.75	1.7	2.6	Partial Excavation
G 116	720,1050L	4754	0	1.4	1.2	Not Excavated, Verified Clean
G 117	690,1050L	4755	0	1.4	2.1	Not Excavated, Verified Clean
G 118	660,1050L	4756	0	1.8	1.3	Not Excavated, Verified Clean
G 119	630,1050L	4757	0	1.1	1.2	Not Excavated, Verified Clean
G 120	600,1050L	4758	0.5	1.2	0.9	Partial Excavation
G 121	570,1050L	4759	0.5	1.2	1.3	Partial Excavation
G 122	540,1050L	4863	0.5	1.5	1.5	
G 123	510,1050L	4862	0.5	2.2	2.7	
G SS16	480,1050L	4855	0.5	1.7	3.1	
G SS17	450,1050L	4856	0.5	2.1	3.5	
G SS18	420,1050L	4790	0.5	1.6	3.1	Duplicate Verification

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-226 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
G 124	420,1050L	3995	0.5	2.1	2.9	Duplicate Verification
G 125	390,1050L	3996	0.5	1.7	2.2	
G 126	360,1050L	3997	0.5	2	2.7	
G 127	330,1050L	3998	0.5	0.85	1.7	
G 128	300,1050L	3999	0.5	1.9	1.6	
G 129	270,1050L	4046	4	1.7	1.7	
G 130	240,1050L	4047	4	0.98	2.7	
G 136	60,1050L	4168	2.75	2.5	3.6	
G 137	30,1050L	4169	0.5	1.3	2.4	

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
H 3	870,1050L; 840,1050L; 840,1080L; 865,1080L; 868,1054L	5072	3.75	2.6	3.5	
H 4	840,1080L	4874	3.75	1	1.5	
H 5	810,1080L	4875	3.75	0.96	1.8	
H 6	780,1080L	4876	3.75	2.4	2.9	
H 7	750,1080L	4877	0.5	2	4.5	Partial Excavation
H 8	720,1080L	4722	0	1.4	1.7	Not Excavated, Verified Clean
H 9	690,1080L	4724	0	1.2	1.8	Not Excavated, Verified Clean
H 10	660,1080L	4721	0	1	1.5	Not Excavated, Verified Clean
H 11	630,1080L	4723	0	0.89	1.5	Not Excavated, Verified Clean
H 12	600,1080L	4725	0.5	1.1	2.1	Partial Excavation
H 13	570,1080L	4726	0.5	1.4	2.3	
H 14	540,1080L	4861	0.5	2.8	3.7	
H 15	510,1080L	4864	0.5	1.9	1.4	
H 16	480,1080L	4600	0.5	0.53	0.95	
H 17	450,1080L	4601	0.5	1.2	0.9	
H 18	420,1080L	4000	0.5	0.6	0.98	
H 19	420,1080L	4001	0.5	1.1	1.4	
H 20	390,1080L	4002	0.5	2	3.2	
H 21	360,1080L	4003	0.5	1.5	2.7	
H 22	330,1080L	4004	0.5	1	1.5	
H 23	300,1080L	4048	4	1.5	1.9	
H 24	270,1080L	4049	4	1.3	1.7	
H 30	60,1080L	4170	2.75	1.2	2.6	
H 31	30,1080L	4171	0.5	1.3	1.5	
H 33	865,1080L; 840,1080L; 840,1105L; 848,1103L; 863,1087L	4912	3.75	2.5	4.4	

RF-493
SOIL VERIFICATION DATA

Ra-266 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
H 34	840,1105L; 840,1080L; 810,1080L; 810,1110L; 824,1110L	4878	3.75	2.1	3.8	
H 35	810,1110L	4879	3.75	4.7	7.6	
H 36	780,1110L	4880	3.75	2.9	3.9	
H 37	750,1110L	4727	0.5	2.3	3.8	
H 38	720,1110L	4728	0.5	1.2	1.9	Partial Excavation
H 39	690,1110L	4729	0.5	1.9	1.9	Partial Excavation
H 40	660,1110L	4730	0.5	2.2	2.4	Partial Excavation
H 41	630,1110L	4731	0.5	1.6	3.1	Partial Excavation
H 42	600,1110L	4732	0.5	1.4	2.4	Partial Excavation
H 43	570,1110L	4734	0.5	1.5	2	
H 44	540,1110L	4733	0.5	0.82	1.5	
H 45	510,1110L	4602	0.5	1.1	2	
H 46	480,1110L	4603	0.5	1.2	1	
H 47	450,1110L	4604	0.5	1.7	1.4	
H 48	420,1110L	4005	0.5	1.2	1.3	
H 49	420,1110L	4006	0.5	0.99	1.2	
H 50	390,1110L	4007	0.5	0.66	1.6	
H 51	360,1110L	4008	0.5	1	2.3	
H 52	330,1110L	4009	0.5	1.4	1.8	
H 53	300,1110L	4050	4	1.7	0.85	
H 54	270,1110L	4041	4	0.86	2.1	
H 60	60,1110L	4172	2.75	1.1	1.5	
H 61	30,1110L	4173	0.5	1.8	4.3	
H 63	824,1110L; 780,1110L; 780,1124L	4914	3.75	1.2	2.7	Duplicate Verification
H 64	824,1110L; 780,1110L; 780,1124L	4913	3.75	1.8	3.4	Duplicate Verification

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
H 65	780,1124L; 780,1110L; 750,1110L; 750,1133L	4916	3.75	0.88	2.7	
H 66	750,1133L; 750,1110L; 720,1110L; 720,1140L; 727,1140L	4735	0.5	1.5	2.5	
H 67	720,1140L	4747	0.5	2.2	3	
H 68	690,1140L	4736	0.5	2.1	2.8	
H 69	660,1140L	4737	0.5	2.5	3.9	
H 70	630,1140L	4738	0.5	2	2.6	
H 71	600,1140L	4748	0.5	1	2	
H 72	570,1140L	4739	0.5	1.5	2.1	Partial Excavation
H 73	540,1140L	4605	0.5	1.2	2.7	Partial Excavation
H 74	510,1140L	4606	0.5	1.2	1.2	Partial Excavation
H 75	480,1140L	4607	0.5	1.3	2.3	
H 76	450,1140L	4608	0.5	1.2	1.3	
H 77	420,1140L	4011	0.5	0.82	1.9	
H 78	390,1140L	4010	0.5	1.6	0.12	
H 79	360,1140L	4012	0.5	2.2	1.3	
H 80	330,1140L	4013	2.25	0.94	2.1	
H 81	300,1140L	4014	2.25	1.9	2.1	
H 82	270,1140L	4429	4	1.3	2.1	
H 83	240,1140L	4430	2.69	1.1	1.9	
H 84	210,1140L; 210,1125L; 180,1125L; 180,1140L	4081	0.5	0.76	1.6	
H 85	180,1140L; 180,1125L; 150,1125L; 150,1140L	4082	0.5	1.4	1.6	
H 86	150,1140L; 150,1125L; 125,1125L; 125,1140L	4083	0.5	1.2	1.1	
H 88	80,1140L; 60,1115L; 60,1140L	4174	2.75	0.41	1.8	
H 89	60,1140L	4175	2.75	1.4	2.1	
H 90	30,1140L	4176	0.5	2.6	4.8	
H 92	727,1140L; 690,1140L; 690,1151L	4915	0.5	2.1	2.8	Duplicate Verification

RF-493
SOIL VERIFICATION DATA

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	Ra-266 (pCi/g) CONCENTRATION		COMMENTS
				INITIAL	FINAL	
H 93	727,1140L; 690,1140L; 690,1151L	4917	0.5	2.2	3.7	Duplicate Verification
H 94	690,1151L; 690,1140L; 660,1140L; 660,1160L	4918	0.5	1.3	2.6	
H 95	660,1160L; 660,1140L; 630,1140L; 630,1169L	4921	0.5	2.6	3.3	
H 96	630,1169L; 630,1140L; 600,1140L; 600,1170L; 627,1170L	4740	0.5	1.9	1.8	
H 97	600,1170L	4741	0.5	1.4	1.9	
H 98	570,1173L; 568,1171L; 547,1176L; 542,1140L; 570,1140L	4742	0.5	1	1.5	Partial Excavation
H 99	540,1173L; 540,1140L; 510,1140L; 510,1161L	4609	0	1.9	3	Not Excavated, Verified Clean
H 100	510,1161L; 510,1140L; 480,1140L; 478,1156L; 498,1156L	4610	0.5	1.1	0.83	Partial Excavation
H 101	478,1156L; 480,1140L; 450,1140L; 450,1154L	4611	0.5	2.5	3.8	
H 102	450,1154L; 450,1140L; 420,1140L; 420,1152L	4612	0.5	0.87	0.64	
H 103	420,1152L; 420,1140L; 390,1140L; 390,1155L; 398,1150L	4015	0.5	2.4	5.6	
H 104	390,1155L; 390,1140L; 360,1140L; 360,1168L	4016	0.5	1.2	1.1	
H 105	360,1168L; 360,1140L; 330,1140L; 330,1170L; 356,1170L	4017	0.5	0.44	1.6	
H 106	330,1170L	4018	4	1.4	1.7	
H 107	300,1170L	3965	4	7	1.2	
H 108	270,1170L	4431	4	1.2	1.6	
H 109	240,1170L	4085	0.85	2	2.9	
H 110	210,1170L	4086	0.5	1	1.9	
H 111	180,1170L	4087	0.5	1.2	1.9	
H 112	150,1170L; 150,1140L; 125,1140L; 125,1152L; 120,1152L; 120,1170L	4088	0.5	1.6	2	
H 113	120,1170L; 120,1152L; 90,1152L; 90,1170L	4084	0.5	1.4	1.6	
H 114	90,1152L; 80,1140L; 60,1140L; 60,1170L; 90,1170L	4432	2.75	1.9	2.9	
H 115	60,1170L	4433	2.75	0.69	1.9	
H 116	30,1170L	4434	0.5	2.3	3.4	
H 117	627,1170L; 600,1170L; 600,1178L	4919	0.5	2.8	4	

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX DEPTH	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
H 118	600,1178L; 584,1185L; 570,1173L; 570,1170L; 600,1170L	4920	0.5	1.2	1.8	Duplicate Verification
H 119	600,1178L; 584,1185L; 570,1173L; 570,1170L; 600,1170L	4922	0.5	1.4	2.2	Duplicate Verification
H 131	356,1170L; 330,1170L; 330,1182L 330,1182L; 311,1191L; 300,1193L;	4848	0.5	0.91	1.5	
H 120	300,1170L; 330,1170L	4019	1.55	0.54	1.6	
H 121	300,1193L; 270,1198L; 270,1170L; 300,1170L	4020	1.15	1.3	1.9	
H 122	270,1198L; 257,1200L; 240,1200L; 240,1170L; 270,1170L	4021	1.08	2.5	4	
H 123	240,1200L	4089	0.5	1.8	2.1	
H 124	210,1200L	4090	0.5	1.5	2.4	
H 125	180,1200L	4091	0.5	2	1.4	
H 126	150,1200L	4092	0.5	1	1.9	
H 127	120,1200L	3989	0.5	1	1.9	
H 128	90,1200L	3990	0.5	1.1	1.5	
H 129	60,1200L	3991	0.5	1.2	2.2	
H 130	30,1200L	3992	0.5	1.3	1.7	

RF-493
SOIL VERIFICATION DATA

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
I 1	257,1200L; 210,1200L; 210,1207L	3980	0.5	1.9	2.2	
I 2	210,1207L; 210,1200L; 180,1200L; 180,1212L	3981	0.5	0.69	0.95	
I 3	180,1212L; 180,1200L; 150,1200L; 150,1216L	3982	0.5	1.8	1.5	
I 4	150,1216L; 150,1200L; 120,1200L; 120,1221L	3983	0.5	0.76	2.2	
I 5	120,1221L; 120,1200L; 90,1200L; 90,1225L	3984	0.5	1.2	1.3	
I 6	90,1225L; 90,1200L; 60,1200L; 60,1230L	3985	0.5	1.1	2.3	
I 7	60,1230L; 60,1200L; 30,1200L; 30,1234L	3986	0.5	1.3	2	
I 8	30,1230L	3987	0.5	1.5	1.9	
I 9	30,1234L; 30,1230L; 0.0,1230L; 0.0,1239L	3988	0.5	1.1	2.1	

RF-493
SOIL VERIFICATION DATA
BORROW SITE

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
BS 1	712,490L; 700,510L; 733,510L	4923	0	0.45	1.9	
BS 2	733,510L; 720,510L; 720,540L; 750,540L; 750,527L	4924	0	0.84	1.6	
BS 3	720,510L; 700,510L; 690,522L; 690,540L; 720,540L	4925	0	1.3	1.8	
BS 4	750,527L; 750,570L; 780,570L; 780,555L	4926	0	1.4	1.9	
BS 5	750,570L	4927	0	1.1	1.7	
BS 6	720,570L	4928	0	1.4	1.5	
BS 7	690,522L; 684,570L; 690,570L	4929	0	1.6	1.7	
BS 8	780,555L; 780,600L; 810,600L; 810,584L	4930	0	0.97	1.6	
BS 9	780,600L	4931	0	0.91	1.5	
BS 10	750,600L	4932	0	0.76	1.8	
BS 11	720,600L	4933	0	1.8	1.8	
BS 12	684,570L; 660,580L; 660,600L; 690,600L; 690,570L	4934	0	1	2.3	
BS 13	810,584L; 810,630L; 840,630L; 840,613L	4935	0	1.2	1.8	
BS 14	810,630L	4936	0	1.6	1.2	
BS 15	780,630L	4937	0	1.2	1.4	
BS 16	750,630L	4938	0	0.36	1.2	
BS 17	720,630L	4939	0	0.82	0.54	
BS 18	690,630L	4940	0	1.1	1.4	
BS 19	660,580L; 631,630L; 660,630L	4941	0	1.1	0.6	
BS 20	840,613L; 840,660L; 870,660L; 870,641L	4942	0	0.93	1.2	
BS 21	840,660L	4943	0	1.3	1.1	
BS 22	810,660L	4944	0	1.1	1.4	
BS 23	780,660L	4945	0	0.83	1	
BS 24	750,660L	4946	0	1.3	1.3	
BS 25	720,660L	4947	0	1.6	0.96	

RF-493
SOIL VERIFICATION DATA
BORROW SITE

Ra-226 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
BS 26	690,660L	4948	0	1.3	1.6	
BS 27	660,660L	4949	0	0.9	1.4	
BS 28	870,641L; 870,679L; 890,660L	4950	0	0.43	1.1	
BS 29	870,679L; 870,660L; 840,660L; 840,708L	4951	0	1.2	1.1	
BS 30	840,690L	4952	0	1.3	1.5	
BS 31	810,690L	4953	0	1.1	1.5	
BS 32	780,690L	4954	0	1.1	1.6	
BS 33	750,690L	4955	0	1.1	1.6	
BS 34	720,690L	4956	0	1.1	1.3	
BS 35	690,690L	4957	0	1	1.2	
BS 36	660,690L	4958	0	1.2	1.2	
BS 37	630,634L; 600,686L; 600,690L; 630,690L	4959	0	1	0.37	
BS 38	840,708L; 840,690L; 810,690L; 810,737L	4960	0	1.3	1.5	
BS 39	810,720L	4961	0	0.46	1	
BS 40	780,720L	4962	0	1.3	1.3	
BS 41	750,720L	4963	0	0.66	1.5	
BS 42	720,720L	4964	0	1	1.5	
BS 43	690,720L	4965	0	0.79	1.6	
BS 44	660,720L	4966	0	1.1	1.2	
BS 45	630,720L	4967	0	1.3	2.1	
BS 46	600,686L; 578,725L; 600,742L	4968	0	1.5	1.6	
BS 47	810,737L; 810,720L; 780,720L; 780,765L	4969	0	0.9	0.9	
BS 48	780,750L	4970	0	1.5	1.4	
BS 49	750,750L	4971	0	0.6	1.1	
BS 50	720,750L	4972	0	1.8	1.3	

RF-493
SOIL VERIFICATION DATA
BORROW SITE

Ra-266 (pCi/g)

GRID I.D.	COORDINATES	SAMPLE NO. (RFL-SV-)	APPROX Depth (ft)	CONCENTRATION		COMMENTS
				INITIAL	FINAL	
BS 51	690,750L	4973	0	0.96	0.92	
BS 52	660,750L	4974	0	1.4	0.86	
BS 53	600,742L; 610,750L; 630,750L; 630,720L; 600,720L	4975	0	1.2	1.7	
BS 54	780,765L; 780,750L; 750,750L; 750,793L	4976	0	1.3	0.46	
BS 55	750,780L	4977	0	0.9	1.7	
BS 56	720,780L	4978	0	1.2	1.2	
BS 57	690,780L	4979	0	0.86	1.3	
BS 58	610,780L; 648,780L; 660,780L; 660,750L	4980	0	0.93	0.74	
BS 59	750,793L; 750,780L; 720,780L; 720,810L; 732,810L	4981	0	0.93	2	
BS 60	720,810L	4982	0	1.4	1.2	
BS 61	648,780L; 685,810L; 690,810L; 690,780L	4983	0	0.96	1.2	
BS 62	732,810L; 685,810L; 710,830L	4984	0	0.92	1.1	



COLORADO DEPARTMENT OF HEALTH
UMTRA PROJECT

RF-493

Comments and Resolutions

Comment: Borehole #92 should indicate contamination to a 6" depth according to the borehole log, page 23.

Resolution: Drawing No. 493-20 indicates that this area, including borehole #92, is scheduled for 6" of excavation.

Comment: This REA should indicate that the property to the north is a spillover. If that property has not been included it should be monitored and given spillover status.

Resolution: The property to the north of RF-493 has not been included. Oak Ridge National Laboratory will investigate this property.



COLORADO DEPARTMENT OF HEALTH
Field Inspections

COLORADO DEPARTMENT OF HEALTH
UNITRAP FIELD INSPECTION

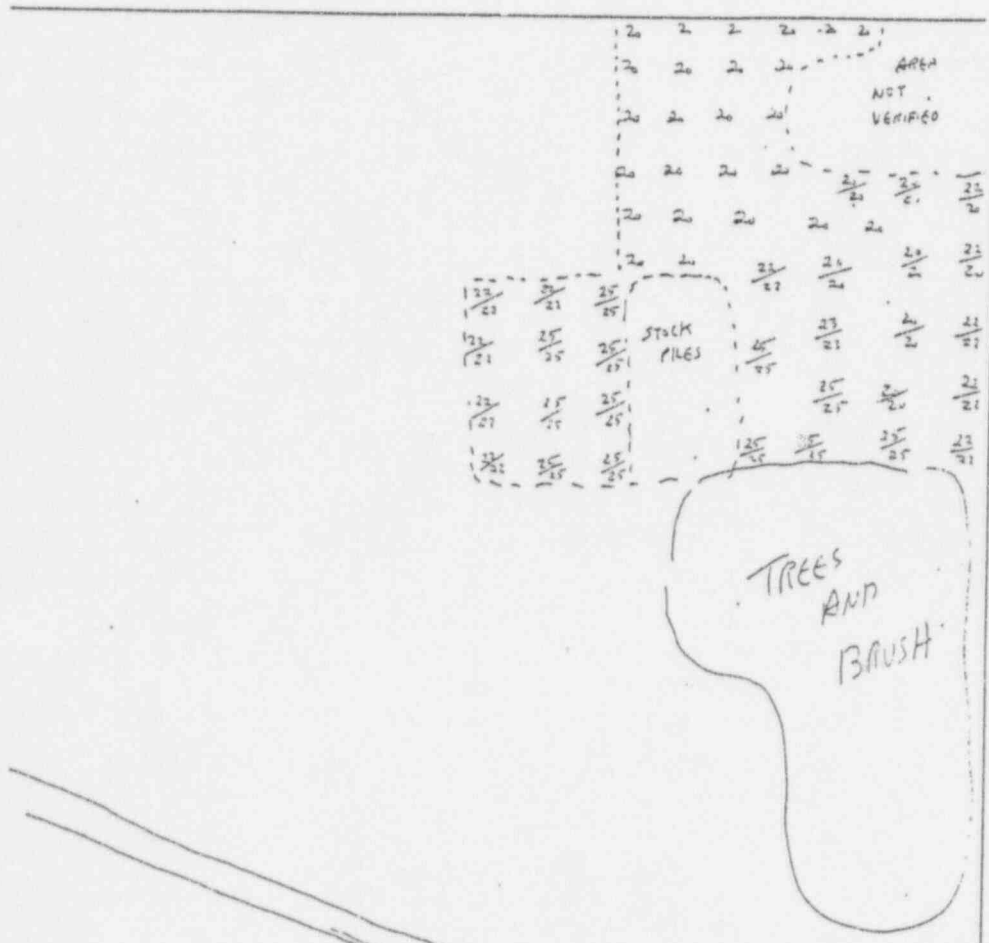
Based on the gamma radiation survey performed on 1-15-93
(date)

at NE of OLD RIFLE SITE / N OF HWY 6.
(address)

RIFLE
Durango I.D. Number RF-493 Location Number 27962

This property has had:

- ☒ 1. all detectable contamination removed. FROM AREAS CLEARED
- ☒ 2. most of the detectable contamination removed, with the exception of:
(see sketch) WITH EXCEPTION OF AREAS NOT CLEARED
- ☐ 3. all contamination defined in the REA removed.
- ☐ 4. most of the contamination defined in the REA removed, with the following exceptions:



Copy received by _____ Signed J. Harris CDH

All readings are CDH meter readings unless otherwise noted. Inst. # _____



DEPARTMENT OF ENERGY
UMTRA PROJECT

RF-493

Comments and Resolutions

Comment: Boreholes #74 and #79 show contamination to 24" and 36" and are shown in areas planned for 6" of excavation.

Resolution: Boreholes #207, #208, and #209 in the direct vicinity of borehole #74 indicate that the volume of contamination is small and, along with borehole #79, will be further investigated during remediation.

Action: Investigation during remediation showed no additional remediation required.

Comment: Test pits #1 and #3 along with boreholes #199 and #200, in the southwest corner, indicated contamination depths from 42" to 54" and are shown in areas planned for 6" of excavation. Also, was a "cobbles-to-fines" correction factor used or were the soil samples representative for determining the estimated pCi/g Ra-226 in the test pits?

Resolution: Because of the uneven and overgrown nature of the terrain in the southwest corner of this property, a 6" lift will be excavated in this area, as scheduled, allowing further evaluation during remediation.

A cobbles-to-fines correction factor was not used to determine the Ra-226 concentrations in test pits #1 and #3. Soil samples were obtained in compliance with the RAC UMTRA Procedure 010.

Action: Remediation averaged 45" in this general vicinity.

Comment: Agreement noted on considering Supplemental Standards for bluffs on east and south edges. Note: there may be a few thousand more cubic yards of excavation.

Resolution: Table 4.1, activity numbers 493.1 and 493.2 includes the quantity and estimated cost of both the bulk excavation and removal of contaminated slope material.

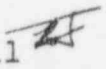
Supplemental Standards Request
Rifle UMTRA Project
Rifle, Colorado
Property I.D. RF-493

Introduction: RF-493 is a large open land property located north and northeast of the Old Rifle mill site. This property was remediated during the spring of 1994. Areas associated with the steep slopes were not remediated due to safety concerns. These areas are identified as areas F,G,H and I on the accompanying map.

Characterization: Supplemental standard areas F,G,H and I were characterized via soil sampling, downhole logging and dose rate surveys. Areas F and H are clear cut and the data available should clearly identify scope as well as the depth and berth of the contamination. Areas F and I on the other hand requires some explanation.

Due to elevated dose rates in area I the Colorado Department of Health (CDH) requested and received additional remediation for the express purpose of dose rate reduction. The remediation was completed during the month of October, 1995 by a subcontractor to MK-F, Johnson Construction of Rifle, Co.. Seventeen high outside gamma areas (HOGs) identified by CDH, were hand excavated and transferred to the New Rifle site. During the excavation personnel were tied off with lanyards for safety purposes. The remediation process posses a glitch in our previous characterization for supplemental standards in the area. Boreholes and soil samples once relevant were remediated. Therefore in area I it will be necessary to determine the volume of supplemental standard contamination remaining after the first remediation in 1994, then determine the volume removed and delete it from the original volume. This should be easily accomplished, bare in mind that Area A of the remediated area does not meet EPA cleanup criterion. and will have to be included in the total volume left.

Area G posses another minor glitch. The area of borehole #7 eroded off the bluff since the original characterization and is no longer applicable. Soil samples from the area show analysis less than the 5 pCi/g EPA criterion. With the exception of boreholes 8 and 9 showing elevated surface readings this area would not be considered for supplemental standards application. In any event, I think it behooves us to request the supplemental standards upon the original characterization and note the current conditions. This being in lieu of re-characterizing the area.

Robert R. Fencil 
Site Health Physics Manager

BOREHOLE LOG

LOGGING CREW: E. SCOTT, C. RUPP
D. SCHMALZ, D. WELKER

SHEET 1 OF 16 PAGE 1

DATE: 4-6-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>1</u>		BOREHOLE ID: <u>2</u>		BOREHOLE ID: <u>3</u>		BOREHOLE ID: <u>4</u>	
COORD: <u>9+22, 638 L</u>		COORD: <u>9+19, 665 L</u>		COORD: <u>9+19, 695 L</u>		COORD: <u>9+19, 720 L</u>	
SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____	
NOTES: _____		NOTES: _____		NOTES: _____		NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	1980	SURFACE	2410	SURFACE	2110	SURFACE	2570
0"	1970	0"	2580	0"	2080	0"	2500
6"	2270	6"	2890	6"	2030	6"	2430
12"	2340	12"	3010	12"	2170	12"	2560
18"	2470	18"	2810	18"	2490	18"	2540
24"	2380	24"	2430	24"	2470	24"	2510
30"	2240	30"	2310	30"	2410	30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"	N	60"		60"	
66"		66"		66"		66"	
72"		72"	A	72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area F

REVIEWED BY: Robert H. Fencil DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: E. SCOTT, C. RUPP
D. SCHMALZ, D. WELKE

SHEET 2 OF 16 PAGE 2

DATE: 4-16-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
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BOREHOLE ID: <u>5</u> COORD: <u>9+42, 630L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>6</u> COORD: <u>9+50, 671L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>7</u> COORD: <u>9+18, 778L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>8</u> COORD: <u>9+00, 805L</u> SS or SC #'s/DEPTH:	
NOTES:		NOTES:		NOTES:		NOTES:	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2490</u>	SURFACE	<u>3180</u>	SURFACE	<u>6730</u>	SURFACE	<u>2580</u>
0"	<u>2730</u>	0"	<u>2180</u>	0"	<u>5400</u>	0"	<u>2550</u>
6"	<u>2970</u>	6"	<u>2280</u>	6"	<u>7200</u>	6"	<u>2140</u>
12"	<u>2930</u>	12"	<u>2130</u>	12"	<u>4760</u>	12"	<u>2200</u>
18"	<u>2830</u>	18"	<u>2240</u>	18"	<u>3520</u>	18"	<u>2360</u>
24"	<u>2430</u>	24"	<u>2170</u>	24"	<u>2840</u>	24"	<u>2400</u>
30"		30"		30"	<u>2510</u>	30"	<u>2400</u>
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"	<u>N</u>	66"		66"	
72"		72"		72"		72"	
78"		78"	<u>A</u>	78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: 5, 6 → Area F
7, 8 → Area C

REVIEWED BY: Robert H. Fossil DATE: 5-29-96



BOREHOLE LOG

LOGGING CREW: E. SCOTT, C. RIPP

SHEET 3 OF 16 PAGE 3

D. SCHMALZ, D. WELKER

DATE: 4-6-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

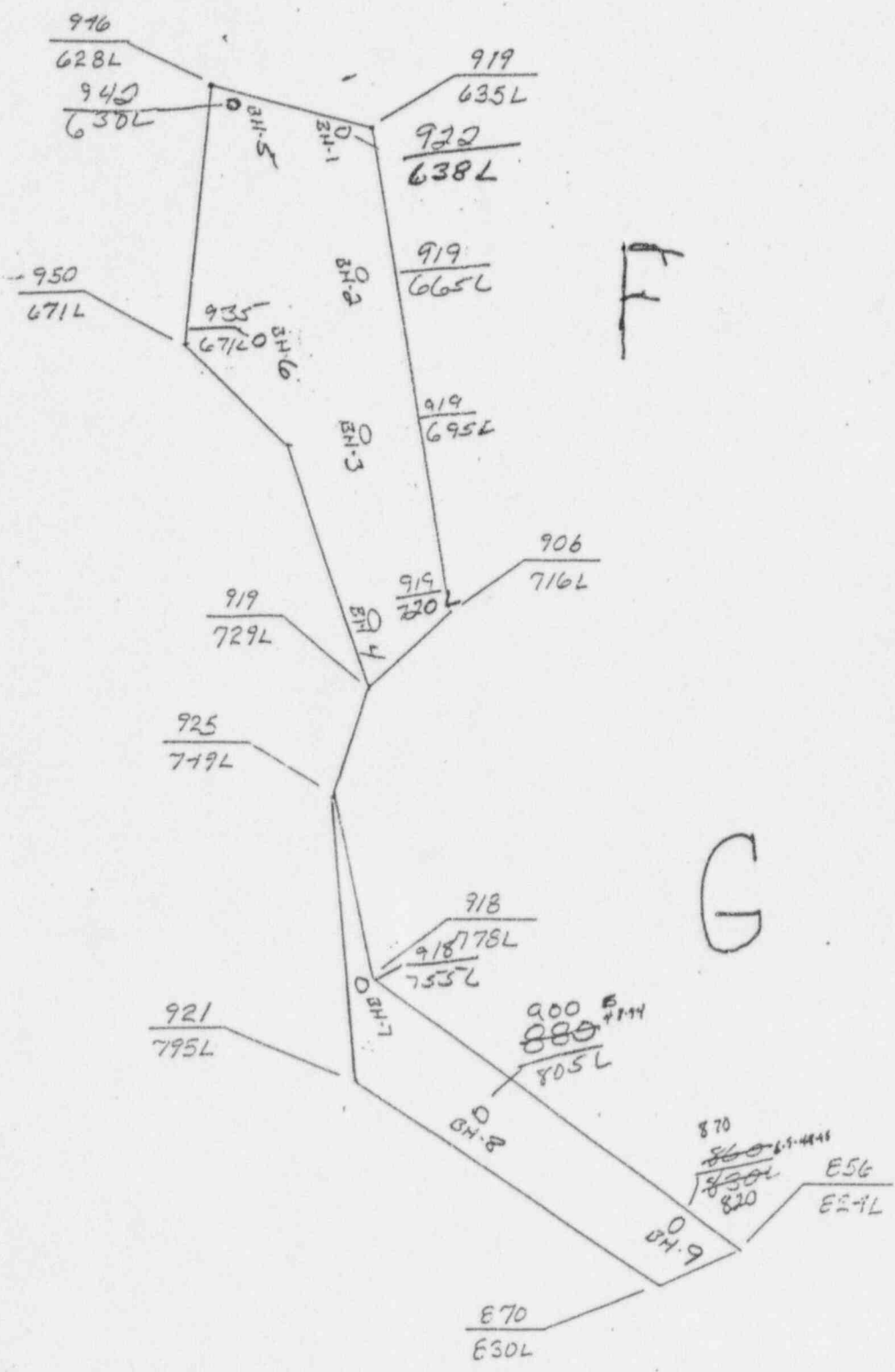
AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4"DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

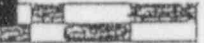
BOREHOLE ID: <u>9</u>		BOREHOLE ID: _____		BOREHOLE ID: _____		BOREHOLE ID: _____	
COORD: <u>8+70, 820L</u>		COORD: _____		COORD: _____		COORD: _____	
SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____	
NOTES: _____		NOTES: _____		NOTES: _____		NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2390</u>	SURFACE		SURFACE		SURFACE	
0"	<u>2280</u>	0"		0"		0"	
6"	<u>2100</u>	6"		6"		6"	
12"	<u>2250</u>	12"		12"		12"	
18"	<u>2290</u>	18"		18"		18"	
24"	<u>2390</u>	24"		24"		24"	
30"		30"		30"		30"	
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area G

REVIEWED BY: Robert L. Emile DATE: 5-29-96



5 10 20 30 FEET



BOREHOLE LOG

LOGGING CREW: D. SCHMALZ, D. WELKER
E. SCOTT, C. RUPP

SHEET 5 OF 16 PAGE 5

DATE: 2-15-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4"DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>10</u> COORD: <u>7+30, 900L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>11</u> COORD: <u>7+05, 920L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>12</u> COORD: <u>6+95, 920L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>13</u> COORD: <u>6+95, 935L</u> SS or SC #'s/DEPTH: _____ NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>4340</u>	SURFACE	<u>4090</u>	SURFACE	<u>2910</u>	SURFACE	<u>3330</u>
0"	<u>4040</u>	0"	<u>3340</u>	0"	<u>2720</u>	0"	<u>2940</u>
6"	<u>3580</u>	6"	<u>2960</u>	6"	<u>2390</u>	6"	<u>2390</u>
12"	<u>3040</u>	12"	<u>2960</u>	12"	<u>2620</u>	12"	<u>2390</u>
18"	<u>2950</u>	18"	<u>2820</u>	18"	<u>2790</u>	18"	<u>2440</u>
24"	<u>2930</u>	24"	<u>2840</u>	24"	<u>2760</u>	24"	<u>2730</u>
30"	<u>2840</u>	30"		30"	<u>2720</u>	30"	
36"		36"		36"	<u>2720</u>	36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area H

REVIEWED BY: John H. Fennell

DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: D. SCHMALZ, D. WELKER
E. SCOTT, C. RUPP

SHEET 6 OF 16 PAGE 6
DATE: 2-15-94
PROPERTY ID: RF 493
AREA: NORTH OF ORF

INSTRUMENT ID NO. ESP-1692 SPA-32

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>14</u> COORD: <u>6+70, 905L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>15</u> COORD: <u>6+30, 945L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>16</u> COORD: <u>6+35, 965L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>17</u> COORD: <u>5+35, 990L</u> SS or SC #'s/DEPTH:	
NOTES:		NOTES:		NOTES:		NOTES:	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>6520</u>	SURFACE	<u>3500</u>	SURFACE	<u>2580</u>	SURFACE	<u>2620</u>
0"	<u>4910</u>	0"	<u>4960</u>	0"	<u>2480</u>	0"	<u>2670</u>
6"	<u>4370</u>	6"	<u>4900</u>	6"	<u>2290</u>	6"	<u>2300</u>
12"	<u>3540</u>	12"	<u>3940</u>	12"	<u>2410</u>	12"	<u>2260</u>
18"	<u>2970</u>	18"	<u>3390</u>	18"	<u>2520</u>	18"	<u>2480</u>
24"	<u>2960</u>	24"	<u>3350</u>	24"	<u>2600</u>	24"	<u>2560</u>
30"		30"		30"	<u>2590</u>	30"	<u>2380</u>
36"		36"		36"	<u>2430</u>	36"	<u>2430</u>
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"	<u>N</u>	66"		66"	
72"		72"		72"		72"	
78"		78"	<u>A</u>	78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area H

REVIEWED BY: [Signature] DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: D. SCHMALZ, D. WELKER
E. SCOTT, C. RUPP

SHEET 7 OF 16 PAGE 7

DATE: 2-25-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>18</u> COORD: <u>5+50.985L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>19</u> COORD: <u>5+20.970L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>20</u> COORD: <u>5+85.950L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>21</u> COORD: <u>6+35.935L</u> SS or SC #'s/DEPTH: _____ NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2920</u>	SURFACE	<u>2100</u>	SURFACE	<u>2690</u>	SURFACE	<u>2970</u>
0"	<u>3360</u>	0"	<u>2300</u>	0"	<u>2780</u>	0"	<u>2740</u>
6"	<u>4830</u>	6"	<u>2070</u>	6"	<u>2790</u>	6"	<u>2820</u>
12"	<u>7640</u>	12"	<u>2340</u>	12"	<u>2570</u>	12"	<u>3190</u>
18"	<u>10,900</u>	18"	<u>2640</u>	18"	<u>2590</u>	18"	<u>3200</u>
24"	<u>15,200</u>	24"	<u>2630</u>	24"	<u>2660</u>	24"	<u>3480</u>
30"	<u>13,600</u>	30"	<u>2540</u>	30"		30"	<u>3330</u>
36"	<u>11,700</u>	36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"	<u>N</u>	60"		60"	
66"		66"		66"		66"	
72"		72"	<u>A</u>	72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area H

REVIEWED BY: [Signature]

DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: D. SCHMALZ, D. WELKER
E. SCOTT, C. RUPP

SHEET 8 OF 16 PAGE 8

DATE: 2-15-94

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1692 SPA-32

AREA: NORTH OF ORF

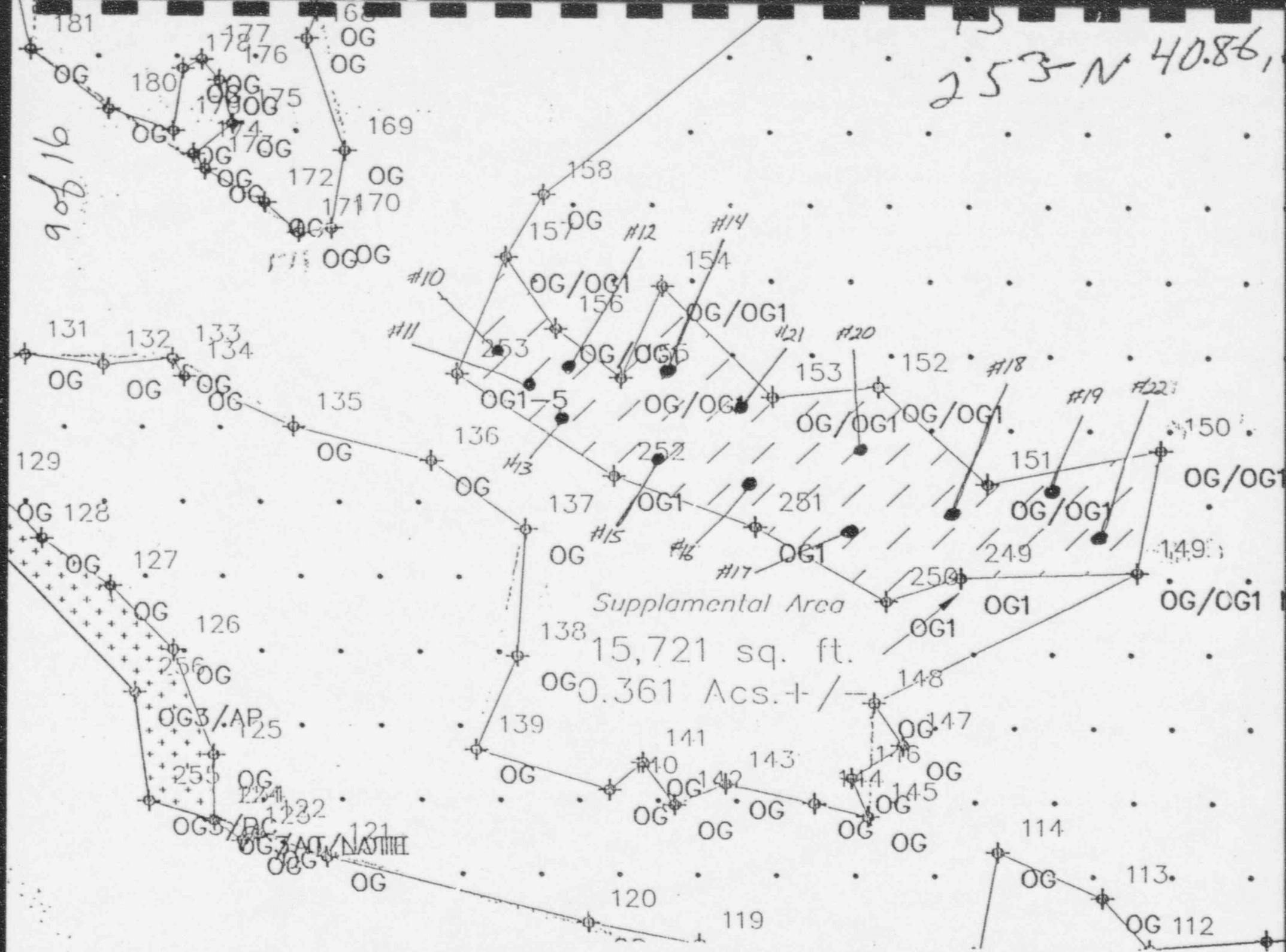
- NOTES: 1. ALL HOLES ARE 4"DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>22</u> COORD: <u>4+95.9806</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: _____ COORD: _____ SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: _____ COORD: _____ SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: _____ COORD: _____ SS or SC #'s/DEPTH: _____ NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2230</u>	SURFACE		SURFACE		SURFACE	
0"	<u>2100</u>	0"		0"		0"	
6"	<u>2210</u>	6"		6"		6"	
12"	<u>2320</u>	12"		12"		12"	
18"	<u>2380</u>	18"		18"		18"	
24"	<u>2410</u>	24"		24"		24"	
30"	<u>2460</u>	30"		30"		30"	
36"	<u>2330</u>	36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area 17

REVIEWED BY: Robert H. Fencil DATE: 5-29-96

75



BOREHOLE LOG

LOGGING CREW: P. Hill

SHEET 10 OF 16 PAGE 10

M. Biondich

DATE: 2-6-95

K. Cosgrove

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>23</u> COORD: <u>4+40, 1147L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>24</u> COORD: <u>4+40, 1154L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>25</u> COORD: <u>4+11, 1146L</u> SS or SC #'s/DEPTH:		BOREHOLE ID: <u>26</u> COORD: <u>4+11, 1161L</u> SS or SC #'s/DEPTH:	
NOTES:		NOTES:		NOTES:		NOTES:	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	1600	SURFACE	4560	SURFACE	2000	SURFACE	13090
0"	1700	0"	3780	0"	1600	0"	13000
6"	1800	6"	3070	6"	1740	6"	11000
12"	1700	12"	2630	12"	1900	12"	5400
18"	2100	18"	2400	18"	2650	18"	3500
24"	2100	24"	2450	24"	2800	24"	3200
30"	2200	30"	2400	30"	2330	30"	2840
36"	2300	36"	2300	36"	2400	36"	3000
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area I

REVIEWED BY: John R. Fencil DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: P. Hill

SHEET 11 OF 16 PAGE 11

M. Biondich

DATE: 2-6-95

K. Cosgrove

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>27</u>		BOREHOLE ID: <u>28</u>		BOREHOLE ID: <u>29</u>		BOREHOLE ID: <u>30</u>	
COORD: <u>3+67.1173L</u>		COORD: <u>3+67.1181L</u>		COORD: <u>3+16.1180L</u>		COORD: <u>3+16.1196L</u>	
SS or SC #'s/DEPTH:		SS or SC #'s/DEPTH:		SS or SC #'s/DEPTH:		SS or SC #'s/DEPTH:	
NOTES:		NOTES:		NOTES:		NOTES:	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	1900	SURFACE	19000	SURFACE	2000	SURFACE	8000
0"	1850	0"	1500	0"	1960	0"	8900
6"	2000	6"	1380	6"	2000	6"	8440
12"	1900	12"	7300	12"	2000	12"	6260
18"	1840	18"	4040	18"	2540	18"	4400
24"	1500	24"	2400	24"	2420	24"	3620
30"	1460	30"	2420	30"	2540	30"	3710
36"	1500	36"	2400	36"	2500	36"	4000
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: area I

VIEWED BY: John R. Feneil DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: P. Hill

SHEET 12 OF 16 PAGE 12

M. Biondich

DATE: 2-6-95

K. Cosgrove

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>31</u>	BOREHOLE ID: <u>32</u>	BOREHOLE ID: <u>33</u>	BOREHOLE ID: <u>34</u>
COORD: <u>2+67, 1192L</u>	COORD: <u>2+67, 1203L</u>	COORD: <u>2+67, 1212L</u>	COORD: <u>2+20, 1204L</u>
SS or SC #'s/DEPTH:	SS or SC #'s/DEPTH:	SS or SC #'s/DEPTH:	SS or SC #'s/DEPTH:
NOTES:	NOTES:	NOTES:	NOTES:

DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	1800	SURFACE	3600	SURFACE	3500	SURFACE	1600
0"	1720	0"	4020	0"	4160	0"	1620
6"	2010	6"	3520	6"	4810	6"	1730
12"	2300	12"	2900	12"	3900	12"	2000
18"	2510	18"	3100	18"	3100	18"	1600
24"	2700	24"	2960	24"	2720	24"	1400
30"	2760	30"	3200	30"	2900	30"	1240
36"	2900	36"	2780	36"	2780	36"	1310
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area F

REVIEWED BY: Robert R. Fencil DATE: 5-29-96



BOREHOLE LOG

LOGGING CREW: P. HILL

SHEET 13 OF 16 PAGE 13

M. RIENDICH

DATE: 2-6-95

K. POSAROVE

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.

2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: 35
COORD: 2+20.1215L
SS or SC #'s/DEPTH:

BOREHOLE ID: 36
COORD: 2+20.1225L
SS or SC #'s/DEPTH:

BOREHOLE ID: 37
COORD: 1+76.1215L
SS or SC #'s/DEPTH:

BOREHOLE ID: 38
COORD: 1+76.1228L
SS or SC #'s/DEPTH:

NOTES:

NOTES:

NOTES:

NOTES:

DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	8500	SURFACE	13000	SURFACE	2100	SURFACE	4500
0"	12000	0"	7040	0"	2030	0"	3520
6"	13000	6"	5500	6"	2400	6"	3700
12"	6560	12"	3320	12"	2700	12"	2800
18"	2800	18"	2450	18"	2620	18"	2310
24"	2760	24"	2300	24"	2730	24"	2200
30"	AR	30"	2400	30"	2400	30"	1900
36"		36"	2910	36"	2500	36"	AR
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area I

REVIEWED BY: Robert R. Fincel DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: P. HILL

SHEET 14 OF 16 PAGE 14

M. BIONDICH

DATE: 2-6-95

K. POSAROVE

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>39</u> COORD: <u>1+23, 1218L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>40</u> COORD: <u>1+23, 1238L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>41</u> COORD: <u>0+76, 1219L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>42</u> COORD: <u>0+76, 1247L</u> SS or SC #'s/DEPTH: _____ NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2100</u>	SURFACE	<u>2500</u>	SURFACE	<u>2000</u>	SURFACE	<u>4200</u>
0"	<u>2020</u>	0"	<u>2230</u>	0"	<u>2120</u>	0"	<u>1940</u>
6"	<u>2600</u>	6"	<u>2000</u>	6"	<u>2500</u>	6"	<u>2310</u>
12"	<u>2700</u>	12"	<u>2010</u>	12"	<u>2640</u>	12"	<u>2440</u>
18"	<u>2940</u>	18"	<u>2100</u>	18"	<u>2700</u>	18"	<u>2200</u>
24"	<u>3000</u>	24"	<u>2300</u>	24"	<u>2300</u>	24"	<u>2560</u>
30"	<u>2900</u>	30"	<u>2200</u>	30"	<u>2260</u>	30"	<u>2300</u>
36"	<u>2900</u>	36"	<u>2240</u>	36"	<u>2310</u>	36"	<u>2400</u>
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area I

REVIEWED BY: Robert E. Fencil

DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: P. HILL

SHEET 15 OF 16 PAGE 15

M. BONDICH

DATE: 2-6-95

K. POSAROVE

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>43</u> COORD: <u>0+30, 1233L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>44</u> COORD: <u>0+30, 1250L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>45</u> COORD: <u>0+52, 1194L</u> SS or SC #'s/DEPTH: _____ NOTES: _____		BOREHOLE ID: <u>46</u> COORD: <u>0+13, 1225L</u> SS or SC #'s/DEPTH: _____ NOTES: _____	
DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2000</u>	SURFACE	<u>2100</u>	SURFACE	<u>1750</u>	SURFACE	<u>1930</u>
0"	<u>1940</u>	0"	<u>2230</u>	0"	<u>1900</u>	0"	<u>1830</u>
6"	<u>2620</u>	6"	<u>2300</u>	6"	<u>2260</u>	6"	<u>1950</u>
12"	<u>2800</u>	12"	<u>2510</u>	12"	<u>2600</u>	12"	<u>1740</u>
18"	<u>2820</u>	18"	<u>2420</u>	18"	<u>2970</u>	18"	<u>1840</u>
24"	<u>2540</u>	24"	<u>2500</u>	24"	<u>3130</u>	24"	<u>1820</u>
30"	<u>2900</u>	30"	<u>2600</u>	30"	<u>3260</u>	30"	<u>1850</u>
36"	<u>2860</u>	36"	<u>2610</u>	36"	<u>3230</u>	36"	<u>1790</u>
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: area I

REVIEWED BY:

[Signature]

DATE: 5-29-96

BOREHOLE LOG

LOGGING CREW: P. Hill

SHEET 16 OF 16 PAGE 16

M. Biondich

DATE: 2-6-95

K. Cosgrove

PROPERTY ID: RF 493

INSTRUMENT ID NO. ESP-1 #1692 SPA-3 #35

AREA: NORTH OF ORF

- NOTES: 1. ALL HOLES ARE 4" DIA. UNLESS OTHERWISE NOTED.
2. RECORD UNUSUAL CONDITIONS, SUCH AS THE PRESENCE OF WATER IN BOREHOLES AND DEPTH, CASING TYPE AND THICKNESS IF USED, CONCRETE CORES AND THICKNESS, OBSTRUCTIONS, UTILITIES, ETC., IN THE REMARKS SECTION.

BOREHOLE ID: <u>47</u>		BOREHOLE ID: _____		BOREHOLE ID: _____		BOREHOLE ID: _____	
COORD: <u>0+13, 1241 L</u>		COORD: _____		COORD: _____		COORD: _____	
SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____		SS or SC #'s/DEPTH: _____	
NOTES: _____		NOTES: _____		NOTES: _____		NOTES: _____	

DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM	DEPTH	CPTM
SURFACE	<u>2870</u>	SURFACE		SURFACE		SURFACE	
0"	<u>3020</u>	0"		0"		0"	
6"	<u>3380</u>	6"		6"		6"	
12"	<u>3390</u>	12"		12"		12"	
18"	<u>3400</u>	18"		18"		18"	
24"	<u>2980</u>	24"		24"		24"	
30"	<u>CAVE IN</u>	30"		30"	<u>N</u>	30"	<u>A</u>
36"		36"		36"		36"	
42"		42"		42"		42"	
48"		48"		48"		48"	
54"		54"		54"		54"	
60"		60"		60"		60"	
66"		66"		66"		66"	
72"		72"		72"		72"	
78"		78"		78"		78"	
84"		84"		84"		84"	
90"		90"		90"		90"	
96"		96"		96"		96"	

REMARKS: Area I

REVIEWED BY: Robert K. Fencil DATE: 5-29-96



1 of 2 Pg 17

DOSE RATE LOG

SITE: University Properties RF-493
INST. MODEL: Bicron
BACKGROUND 3 FT. 10 μ rem/h

DATE: 12-13-95
SERIAL NO.: B410E
SURVEYOR: Ken Cosgrove

H

F

I

LOCATION (ATTACH MAP OF AREA IF NECESSARY)	3 Ft. Dose Rate (μ rem/h)	3 Ft. Net Dose Rate (μ rem/h)	NET AREA AVERAGE (μ rem/h)	Gross. 1 Ft. Dose Rate (μ rem/h)	
5+10, 990L	12	2	N/A	18	
6+00, 960L	15	5		20	
6+30, 930L	15	5		15	
6+60, 900L	10	0		15	
7+20, 930L	20	10		25	
		Area H	4.4		
9+15, 720L	10	0	N/A	12	
9+25, 675L	10	0		10	
9+35, 650L	10	0		15	
		Area F	0.0		
4+45, 1155L	15	5	N/A	15	
3+65, 1177L	20	10		30	
3+14, 1193L	25	15		40	
2+55, 1205L	30	20		40	
2+23, 1228L	30	20		80	
1+69, 1224L	20	10		45	
1+16, 1236L	12	2		18	
0+08, 1184L	9	-1		9	
0+08, 1210L	9	-1		8	
0+19, 1254L	13	3		12	
		Area I	8.3		
* 8+69, 820L	10	0	0.67	not available	
* 8+89, 805L	12	2			
* 9+18, 781L	10	0			
* completed 3-15-95 by Cosgrove - Bicron 937E, 8kg = 10 μ rem/hr					
Reviewed By:			Date:		



RUST FEDERAL SERVICES, INC.

2 of 2 Pg 18

DATE: 12-13-95

SERIAL NO.: R410E

BACKGROUND 3 FT. 10 prem/h

SURVEYOR: Ken C. Gagnier

Reviewed By: <i>Robert H. Fencil</i>	Date: 5-29-96
--------------------------------------	---------------

OCS SAMPLE LOG

SITE NAME RIFLE CO

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	Bi-214 pCi INITIAL 20 DAY	Tl-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Ra-226 pCi/g INITIAL/CORR. 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH <15cm >15cm	TECH INITIAL 20 DAY	COMMENTS
6-1-95	RFL-SS-8584			400	593.4	935.0	637	0.93	1.5		W/W	TH-230
6-1-95	J-07-14	6-1-95								✓	W/W	
6-1-95	RFL-SS-8585			500	364.8	1301	715	0.51	1.8		W/W	TH-230
6-1-95	J-07-05	6-1-95								✓	W/W	
6-1-95	RFL-SS-8586			502	849.6	819.3	593	1.4	1.4		W/W	TH-230
6-1-95	J-07-18	6-1-95								✓	W/W	
6-1-95	RFL-SS-8587			402	548.1	856.4	785	0.70	1.1		W/W	TH-230
6-1-95	J-07-22	6-1-95								✓	W/W	
6-1-95	RFL-SS-8588			504	637.7	1224	628	1.0	1.9	✓	W/W	Sup STD. AREA G
6-23-95	VP493-2 #8	6-1-95	6-2-95	634	1123	908.9	519	2.2	1.8		W/W	
6-1-95	RFL-SS-8589			404	560.0	987.4	685	0.82	1.4	✓	W/W	Sup STD. AREA G
6-23-95	VP493-3 #7	6-1-95	6-2-95	636	1219	955.2	579	2.1	1.6		W/W	
6-1-95	RFL-SS-8590			506	624.7	992.8	689	0.91	1.4		W/W	TH-230
6-1-95	VP J-07-23	6-1-95								✓	W/W	
6-1-95	RFL-SS-8591			406	1340	1040	663	2.0	1.6	✓	W/W	Sup STD. AREA G
6-23-95	VP493-2 #6	6-1-95	6-2-95	638	1979	881.0	559	3.5	1.6		W/W	
6-1-95	RFL-SS-8592			412	9593	1512	634	15.1	2.4	✓	W/W	5+10, 990L 3180 cpm @ 1' 184 R/h @ 1' 2090 cpm @ 3' 124 R/h @ 3' AREA "H"
6-23-95	VP493-1	6-1-95	6-2-95	640	15175	1660	545	27.8	3.0		W/W	
6-1-95	RFL-SS-8593			514	8919	1186	709	12.6	1.7	✓	W/W	6+00, 960L 1's 2500 cpm / 20.4 R/h AREA "H"
6-23-95	VP493-2	6-1-95	6-2-95	642	16883	1400	610	27.7	2.3		W/W	3's 1800 cpm / 15.4 R/h

Site Correction Factor = 1.8

VP Correction Factor (if applicable) = 1.7

Count Time = 500 Sec, unless otherwise noted

REVIEWED BY: [Signature]

Site HP Manager

OCS SAMPLE LOG

SITE NAME RIFLE, Co

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	Bi-214 pCi INITIAL 20 DAY	Th-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Ra-226 pCi/g INITIAL 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH < 15cm > 15cm	TECH INITIAL 20 DAY	COMMENTS
6-1-95	RFL-SS-8594	6-1-95	6-2-95	516	2391	1051	556	4.3	1.9	✓	WDW	6+60, 900L AREA "H" 1' = 2560 cpm / 154R/h. 3' = 2140 cpm / 104R/h.
6-23-95	VP 493-4	6-1-95	6-2-95	644	3712	1252	480	7.7	2.6		WDW	
6-1-95	RFL-SS-8595	6-1-95	6-2-95	414	1250	1145	593	19.0	1.9	✓	WDW	7+20, 930L AREA "H" 1' = 4750 cpm / 254R/h. 3' = 3470 cpm / 204R/h.
6-23-95	VP 493-5	6-1-95	6-2-95	646	18532	1419	508	36.5	2.8		WDW	
6-1-95	RFL-SS-8596	6-1-95	6-2-95	416	5344	1320	627	8.5	2.1	✓	WDW	6+30, 930L AREA "H" 1' = 2730 cpm / 154R/h. 3' = 2060 cpm / 154R/h.
6-23-95	VP 493-3	6-1-95	6-2-95	648	8034	1595	533	15.1	3.0		WDW	
6-1-95	RFL-SS-8597	6-1-95	6-2-95	518	15744	1041	631	25.0	1.6	✓	WDW	MAP Location #7 From Disposal Site GAMMA SURVEY
6-23-95	Loc # 7	6-1-95	6-2-95	650	24128	1382	609	39.6	2.3		WDW	5250 cpm.
6-1-95	RFL-SS-8598	6-1-95	6-2-95	420	50765	2202	658	77.3	3.3	✓	WDW	MAP Location #3 From Disposal Site GAMMA SURVEY
6-23-95	Loc # 3	6-1-95	6-2-95	652	75619	2569	567	133.4	4.5		WDW	5420 cpm
6-2-95	RFL-SS-8599	6-1-95	6-2-95	500	532.8	877.1	663	0.80	1.3	✓	WDW	TH230
6-2-95	C-29-13	6-1-95	6-2-95	400	3108	908.8	684	4.5	1.3	✓	WDW	TH230
6-2-95	C-37-02	6-1-95	6-2-95	502	390.2	742.2	627	0.62	1.2	✓	WDW	TH230
6-2-95	RFL-SS-8601	6-1-95	6-2-95	402	6744	847.6	598	1.1	1.4	✓	WDW	TH230
6-2-95	C-37-13	6-1-95	6-2-95	504	361.1	857.9	570	0.63	1.5	✓	WDW	TH230
6-2-95	RFL-SS-8602	6-1-95	6-2-95									
6-2-95	C-45-02	6-1-95	6-2-95									
6-2-95	RFL-SS-8603	6-1-95	6-2-95									
6-2-95	C-45-13	6-1-95	6-2-95									

Site Correction Factor = 1.8
 VP Correction Factor (if applicable) = 1.7
 Count Time = 500 sec, unless otherwise noted

REVIEWED BY: [Signature] Site HPI Manager



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CWM Federal Environmental Services, Inc.

OCS SAMPLE LOG

SITE NAME Pine Co

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	BI-214 pCi INITIAL 20 DAY	TI-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Re-226 pCi/g INITIAL/CORR 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH <15cm >15cm	TECH INITIAL 20 DAY	COMMENTS
6-2-95	RFL-SS-8604	6-1-95	6-3-95	408	6116	1154	520	11.8	2.2	✓	KRC	9+25, 675L
6-24-95	RF 493 #10	6-1-95	6-3-95	644	10215	1150	441	23.2	2.6	✓	WDL	1' = 2210 cpm 10 uR/hr 3' = 1870 cpm
6-2-95	RFL-SS-8605	6-1-95	6-3-95	508	1994	1051	499	4.0	2.1	✓	KRC	9+30, 6000L 9+35, 650
6-24-95	RF 493 #11	6-1-95	6-3-95	646	3336	1233	431	7.7	2.9	✓	WDL	1' = 2310 cpm 15 uR/hr 3' = 1900 cpm 10 uR/hr
6-2-95	RFL-SS-8606	6-1-95	6-3-95	510	6067	1051	475	12.8	2.2	✓	KRC	9+35, 750L 9+15, 720L
6-24-95	RF-493 #9	6-1-95	6-3-95	648	9971	1363	406	24.6	3.4	✓	WDL	1' = 2100 cpm 12 uR/hr 3' = 1830 cpm 10 uR/hr
6-2-95	RFL-SS-8607	6-2-95	6-3-95	548	584.3	906.0	873	0.67	1.0	✓	WDL	TH230
6-2-95	J-28-24	6-2-95	6-3-95	444	436.1	952.5	860	0.51	1.1	✓	WDL	TH230
6-2-95	RFL-SS-8608	6-2-95	6-3-95	550	900.3	1215	625	1.4	1.9	✓	WDL	Surface = 12 uR/hr - 1870 cpm 3' = 13 uR/hr - 2180 cpm
6-24-95	VP 493 #10	6-2-95	6-3-95	650	1508	1243	563	2.7	2.2	✓	WDL	Surface = 9 uR/hr - 1620 cpm 3' = 9 uR/hr - 1550 cpm
6-2-95	RFL-SS-8610	6-2-95	6-3-95	446	649.8	996.2	610	1.1	1.6	✓	WDL	Surface = 8 uR/hr - 1530 cpm 3' = 9 uR/hr - 1650 cpm
6-24-95	VP 493 #11	6-2-95	6-3-95	652	990.7	936.7	550	1.8	1.7	✓	WDL	Surface = 11 uR/hr - 1740 3' = 10 uR/hr - 1660
6-2-95	RFL-SS-8611	6-2-95	6-3-95	552	738.1	732.5	633	1.2	1.2	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm
6-24-95	VP 493 #12	6-2-95	6-3-95	654	959.0	973.8	579	1.7	1.7	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm
6-2-95	RFL-SS-8612	6-2-95	6-3-95	448	578.3	1328	678	0.85	2.0	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm
6-24-95	VP 493 #13	6-2-95	6-3-95	556	956.7	954.2	620	1.5	1.5	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm
6-2-95	RFL-SS-8613	6-2-95	6-3-95	554	601.6	1215	654	0.92	1.9	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm
6-24-95	VP 493 #14	6-2-95	6-3-95	656	844.5	1094	594	1.4	1.8	✓	WDL	Surface = 10 uR/hr - 1580 cpm 3' = 10 uR/hr - 1620 cpm

Site Correction Factor = 1.8

VP Correction Factor (if applicable) = 1.7

Count Time = 500 Sec, unless otherwise noted

REVIEWED BY: [Signature]

Site HP Manager

* converted by KRC - 6-8-95 - [Signature]

OCS SAMPLE LOG

SITE NAME: RFL Co

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	Bi-214 pCi INITIAL 20 DAY	Ti-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Ra-226 pCi/g INITIAL/CORR 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH < 15cm > 15cm	TECH INITIAL 20 DAY	COMMENTS
6-2-95	RFL-SS-8614	6-2-95	6-3-95	450	1188	1250	567	2.1	2.2	✓	WDM	Surface = 104R/h - 2310 cpm 3' = 134R/h - 2570 cpm
6-24-95	VP493 #12	6-2-95	6-3-95	558	2280	973.5	492	4.6	2.0		WDM	4140, 1164L Leak Tested
6-2-95	RFL-SS-8615	6-2-95	6-3-95	556	485.2	1166	561	0.86	2.1	✓	WDM	Surface = 124R/h - 1870 cpm 3' = 154R/h - 2410 cpm
6-24-95	VP493 #3	6-2-95	6-3-95	458	681.6	926.3	497	1.4	1.9		WDM	4103, 1179L
6-2-95	RFL-SS-8616	6-2-95	6-3-95	452	37491	2141	615	61.0	3.5	✓	WDM	Surface = 304R/h - 6240 cpm 3' = 204R/h - 3960 cpm
6-24-95	VP493 #4	6-2-95	6-3-95	658	65019	2819	546	119.0	5.2		WDM	1127R 3465, 1127L
6-2-95	RFL-SS-8617	6-2-95	6-3-95	558	13147	1774	622	21.1	2.9	✓	WDM	Surface = 404R/h - 7640 cpm 3' = 254R/h - 4260 cpm
6-24-95	VP493 #5	6-2-95	6-3-95	560	24484	1937	566	43.3	3.4		WDM	3414, 1123R
6-2-95	RFL-SS-8618	6-2-95	6-3-95	454	5664	1066	616	9.2	1.7	✓	WDM	Surface = 404R/h - 9060 cpm 3' = 304R/h - 4810 cpm
6-24-95	VP493 #6	6-2-95	6-3-95	460	9877	926.3	550	18.0	1.7		WDM	1205R 2455, 1205L
6-2-95	RFL-SS-8619	6-2-95	6-3-95	560	40630	2294	500	81.3	4.6	✓	WDM	Surface = 804R/h - 12200 cpm 3' = 304R/h - 5920 cpm
6-24-95	VP493 #7	6-2-95	6-3-95	660	75387	2736	422	178.6	6.5		WDM	1288L 2423, 1233L
6-2-95	RFL-SS-8620	6-2-95	6-3-95	456	5922	1669	633	9.4	2.6	✓	WDM	Surface = 454R/h - 5340 cpm 3' = 204R/h - 2760 cpm
6-24-95	VP493 #8	6-2-95	6-3-95	562	11248	1639	568	19.8	2.9		WDM	1224R 1469, 1234L
6-2-95	RFL-SS-8621	6-2-95	6-3-95	562	5158	1186	564	9.1	2.1	✓	WDM	Surface = 184R/h - 4600 cpm 3' = 124R/h - 2960 cpm
6-24-95	VP493 #9	6-2-95	6-3-95	462	8899	1005	501	17.8	2.0		WDM	1416R 1449, 1236L
6-2-95	RFL-SS-8622	6-2-95	6-3-95	458	10911	1608	949	11.5	1.7	✓	WDM	
6-24-95	F-26-07	6-2-95	6-3-95	636	16754	1484	885	18.9	1.7	✓	WDM	
6-3-95	RFL-SS-8623	6-2-95	6-3-95	500	572.8	828.9	593	0.97	1.4		WDM	TH-230
N/A	K-08-10	6-2-95	N/A				N	A		✓	N/A	

Site Correction Factor = 1.8

VP Correction Factor (if applicable) = 1.7

Count Time = 500 Sec, unless otherwise noted

REVIEWED BY:

Site HTP Manager

* Consulted 5-29-96 per KRC - LF

OCS SAMPLE LOG

SITE NAME: RIFLE

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	BI-214 pCi INITIAL 20 DAY	TI-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	RA-226 pCi/g INITIAL/CORR. 20 DAY	TH-232 pCi/g INITIAL 20 DAY	DEPTH <15cm >15cm	TECH INITIAL 20 DAY	COMMENTS
6-3-95	RFL-SS-8634	6-2-95		512	828.3	694.0	825	1.0	0.84		W/W	TH230
6-3-95	K-22-25	6-2-95		410	432.1	1049	862	0.50	1.2	✓	N/A	TH230
6-3-95	RFL-SS-8635	6-2-95		514	1720	877.1	949	1.8	0.92		W/W	TH230
6-3-95	K-23-16	6-2-95		412	438.5	908.8	953	0.46	0.95	✓	N/A	TH230
6-3-95	RFL-SS-8636	6-2-95		516	1618	1340	927	1.7	1.4		W/W	TH230
6-3-95	K-23-17	6-2-95		534	4103	886.8	545	7.5	1.6	✓	W/W	TH230
6-3-95	RFL-SS-8637	6-2-95		618	5793	1085	469	12.4	2.3		W/W	TH230
6-3-95	K-23-21	6-2-95		432	18058	1652	519	34.8	3.2	✓	W/W	TH230
6-3-95	RFL-SS-8638	6-2-95		496	29013	1652	469	61.9	3.5		W/W	TH230
6-3-95	K-23-22	6-2-95		536	1664	1137	569	2.9	2.0	✓	W/W	TH230
6-3-95	RFL-SS-8639	6-2-95		598	2091	1041	496	4.2	2.1		W/W	TH230
6-3-95	K-23-23	6-2-95		434	1024	1197	588	1.7	2.0	✓	W/W	TH230
6-3-95	RFL-SS-8640	6-2-95		598	1495	1677	523	2.9	3.2		W/W	TH230
6-3-95	K-23-24	6-2-95		538	1548	1330	612	2.5	2.2	✓	W/W	TH230
6-3-95	RFL-SS-8641	6-2-95		498	26505	1809	546	48.5	3.3		W/W	TH230
6-3-95	K-23-25	6-2-95		538	1548	1330	612	2.5	2.2	✓	W/W	TH230
6-3-95	RFL-SS-8642	6-2-95		538	1548	1330	612	2.5	2.2		W/W	TH230
6-3-95	K-23-26	6-2-95		498	26505	1809	546	48.5	3.3	✓	W/W	TH230

Site Correction Factor = 1.8
 VP Correction Factor (if applicable) = 1.7
 Count Time = 500 Sec., unless otherwise noted
 REVIEWED BY: [Signature] Site HP Manager



OCS SAMPLE LOG

SITE NAME: RIFLE - CD

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	BI-214 pCi INITIAL 20 DAY	TI-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Re-226 pCi/g INITIAL 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH <15cm >15cm	TECH INITIAL 20 DAY	COMMENTS
10-11-95	RFL-SV-8240	10/9/95	10-13-95	648	4068	1011	505	8.06	2.0		H	RECALL
11-7-95	VP493-A	10/9/95		400	7824	1001	469	16.7	2.1		WM	AREA A
10-11-95	RFL-SV-8241	10/9/95		548	1492	857.9	511	2.9	1.7		H	Notified ERL
11-4-95	VP493-B	10/9/95	10-12-95	514	1917	838.6	477	4.0	1.8		WM	AREA B
10-11-95	RFL-SV-8242			450	984.3	957.1	549	1.8	1.7		H	QC Barn 673
11-4-95	VP493-C	10/9/95	10-12-95	526	1725	838.6	515	3.7	1.6		KRC	Area = 4.7 ± 0.6
10-11-95	RFL-SV-8243			650	1062	881.0	455	2.3	1.9		HA	Area = 4.7 ± 0.6
11-4-95	VP493-D	10/9/95	10-12-95	402	1671	896.5	434	3.9	2.2		WM	AREA D
10-11-95	RFL-SV-8244	10/9/95		550	1672	896.4	513	3.3	1.7		H	
11-4-95	VP493-E	10/9/95	10-12-95	538	2025	983.2	485	4.2	2.0		KRC	AREA E
10-11-95	RFL-SV-8245			452	3540	1019	518	6.8	2.0		H	
11-4-95	VP493-F	10/9/95	10-12-95	406	5126	1098	492	10.4	2.2		WM	AREA F
10-11-95	RFL-SV-8246	10/9/95	10-12-95	652	6030	1354	572	1.1	2.4		H	
11-4-95	VP493-G	10/9/95		600	1045	1224	543	1.9	2.3		WM	AREA G
10-11-95	RFL-SV-8247			552	8480	790.4	519	3.4	1.5		H	
11-3-95	VP493-H	10/9/95	10-12-95	478	8534	800.5	497	1.7	1.7		B	AREA H
10-11-95	RFL-SV-8248			454	1445	895.6	548	2.6	1.6		H	
11-4-95	VP493-I	10/9/95	10-12-95	602	1928	927.4	521	3.7	1.8		WM	AREA I
10-11-95	RFL-SV-8249			654	2096	1224	524	4.0	2.3		H	
11-7-95	VP493-J	10/9/95	10-13-95	652	2687	1113	495	5.4	2.2		B	Area J

Site Correction Factor = 1.6

Correction Factor (if applicable) = 1.7

Time = 500 Sec, unless otherwise noted

REVIEWED BY: [Signature]

Site HP Manager



MK-FERGUSON COMPANY
A MORRISON KNUDSEN COMPANY



CWM Federal Environmental Services, Inc.

SITE NAME RIFLE, Co.

OCS SAMPLE LOG

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	Bi-214 pCi INITIAL 20 DAY	Tl-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	Po-210 pCi/g INITIAL/CORR 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH ≤ 15cm > 15cm	TECH INITIAL 20 DAY	COMMENTS
11-15-93	RFL-SV-4742			534	866.4	1304	851	1.0	1.5		PU	≥ 6"
12-10-93	493-H98	11-15-93	11-17-93	558	1059	997.3	727	1.5	1.4	✓	PU	
11-15-93	RFL-SV-4743			437	902.1	1097	729	1.2	1.5	✓	PU	
12-10-93	493-G61	11-15-93	11-17-93	460	1105	1097	639	1.7	1.7		PU	Partial Grid
11-15-93	RFL-SV-4744			536	895.9	776.7	769	1.2	1.0	✓	PU	
12-10-93	493-G62	11-15-93	11-17-93	560	516.1	1093	716	0.72	1.5		PU	Partial Grid
11-15-93	RFL-SV-4745			439	885.7	748.8	809	1.1	0.93	✓	PU	
12-10-93	493-G63	11-15-93	11-17-93	462	928.3	818.5	735	1.3	1.1		PU	Partial Grid
11-15-93	RFL-SV-4746			538	594.0	1160	733	0.81	1.6	✓	PU	
12-10-93	493-G64	11-15-93	11-17-93	562	409.8	1122	698	0.59	1.6		PU	Partial Grid
11-15-93	RFL-SV-4747			441	1833	1176	852	2.2	1.4		PU	≥ 6"
12-10-93	493-H67	11-15-93	11-17-93	464	2232	1412	756	2.73D	1.9	✓	B	
11-15-93	RFL-SV-4748			540	762.9	1189	737	1.0	1.6		PU	≥ 6"
12-10-93	493-H71	11-15-93	11-17-93	564	1203	1256	598	2.0	2.1	✓	B	
11-15-93	RFL-SV-4749			443	920.0	983.9	844	1.1	1.2	✓	PU	
12-10-93	493-G92	11-15-93	11-17-93	466	1199	879.5	769	1.6	1.1		B	
11-15-93	RFL-SV-4750			542	926.9	1247	793	1.2	1.6	✓	PU	
12-10-93	493-G93	11-15-93	11-17-93	566	810.4	1151	724	1.1	1.6		B	
11-16-93	RFL-SV-4751			400	778.3	949.1	726	1.1	1.3	✓	PU	
12-10-93	493-G94	11-16-93	11-17-93	468	638.8	949.1	690	0.93	1.4		B	

VP Correction Factor = 1.8

VP Correction Factor (if applicable) = 2.0

Count Time = 500 SEC. unless otherwise noted

REVIEWED BY:

Robert H. Taniel
Site HP Manager



MK-FERGUSON COMPANY
A MORRISON KNUDSEN COMPANY

INTER-OFFICE CORRESPONDENCE

TO:	File RF-493	DATE:	Jan. 19, 1995
LOCATION:	Rifle, CO	FROM:	Scott Bunney SB
SUBJECT:	RF-493 Supplemental Standard Applications	LOCATION:	Rifle, CO

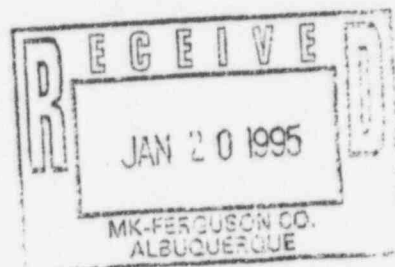
A meeting was held on January 17, 1995 between Tim Moore, Rifle City Engineer, and myself to discuss the areas remediated and the areas where radiological contaminated material is being left on the property. This large open land vicinity property was remediated and backfilled during the 1993 and 1994 construction seasons with the seed, mulch, and fertilizer being placed in November 1994. Mr. Moore felt that the property looked good and would track the growth of the seed in the Spring.

The radiological contamination remaining above the vertical cliffs is being left because of the safety hazard that exists. Mr. Moore felt that a substantial effort had been made to remediate the property and did agree that the safety issue was more important than cleaning up the residual windblown material on the property. Mr. Moore will discuss this with the Rifle City Manager, Dave Hawker, and will recommend that the application for Supplemental Standards be supported by the City of Rifle.

SB/sh

cc: Dave Charlton
File: RF-493

Rw



OCS SAMPLE LOG

SITE NAME
 RIFLE CO

COUNT DATE INITIAL 20 DAY	SAMPLE ID & LOCATION	DATE SAMPLED	DATE SEALED	OCS # INITIAL 20 DAY	BI-214 pCi INITIAL 20 DAY	TI-208 pCi INITIAL 20 DAY	MASS (grams) WET DRY	RA-226 pCi/g INITIAL 20 DAY	Th-232 pCi/g INITIAL 20 DAY	DEPTH <15cm >15cm	TECH INITIAL 20 DAY	COMMENTS
10-11-95	RFL-SV-8250			554	713.4	800.0	561	1.3	1.4		H	
11-6-95	VP493-F	10-9-95	10-13-95	656	1161	862.5	534	2.2	1.6		WM	Area K
10-11-95	RFL-SV-8251			456	843.3	1054	555	1.5	1.9		H	
11-6-95	VP493-L	10-9-95	10-13-95	558	644.8	1224	525	1.2	2.3		WM	Area L
10-11-95	RFL-SV-8252			458	714.1	1150	532	1.4	2.2		B	
11-7-95	VP493 O	10-9-95	10-13-95	600	711.5	1113	499	1.4	2.2		WM	Area O
10-11-95	RFL-SV-8253			556	1069	925.3	528	2.0	1.8		B	
11-6-95	VP493-N	10-9-95	10-13-95	658	1205	667.7	499	2.4	1.3		WM	Area N
10-11-95	RFL-SV-8254			656	676.7	816.1	513	1.3	1.6		B	
11-7-95	VP493-M	10-9-95	10-13-95	502	1095	877.1	490	2.2	1.8		WM	Area M
10-11-95	RFL-SV-8255			460	652.1	693.7	508	1.2	1.4		1A	
11-6-95	VP493-P	10-9-95	10-13-95	560	629.2	819.3	488	1.3	1.7		WM	Area P
10-11-95	RFL-SV-8256			558	932.1	1022	553	1.7	1.8		H	
11-7-95	VP493-Q	10-9-95	10-13-95	616	1460	1076	516	2.8	2.1		WM	Area Q
10-12-95	RFL-SV-8257			616	2401	1280	603	4.0	2.1		WM	Leak Test - passed
11-7-95	VP477/476-476	10-11-95	10-13-95	518	4780	655.4	578	8.3	1.1		WM	
10-12-95	RFL-SV-8258			618	2377	1085	577	4.1	1.9		WM	
11-7-95	VP476/477-477	10-11-95	10-13-95	550	369	1010	550	6.7	1.8		WM	
10-12-95	RFL-SV-8259			518	2347	761.5	534	4.4	1.4		WM	
11-6-95	VP476/477-478	10-11-95	10-13-95	612	4956	816.1	502	9.9	1.6		B	

Site Correction Factor = 1.6
 VP Correction Factor (if applicable) = 1.7
 Count Time = 500 Sec. unless otherwise noted

REVIEWED BY: 

Site HP Manager



MK-FERGUSON COMPANY
A MORRISON KNUDSEN COMPANY

INTER-OFFICE CORRESPONDENCE

TO:	Note to File	DATE:	March 13, 1996
LOCATION:	Rifle, CO	FROM:	Jim Roeder
SUBJECT:	Application of Supplemental Standards, Vicinity Property RF-493	LOCATION:	Rifle, CO

Upon review of potential working conditions on the bluffs overlooking US Highway 6 & 24, above the Old Rifle site, Rifle, CO it is evident that no work could be reasonably performed on such unstable slopes.

The soil in these bluffs is composed of an overburden of fine-grained soils on a thick lens (6-10 feet) of unconsolidated spherical river cobbles. The slope is steep-to-vertical, with a number of under cuts, where material has sloughed in the past. The material is sufficiently unstable that the City of Rifle has found it necessary to install Jersey barriers on the shoulder of the highway to contain the rocks and soil that constantly slough and roll.

Given these conditions, there is no safe method for working on these slopes for characterization or remediation activities. Any activity on the slopes would subject personnel to falling rocks and sliding soil.

While all accessible areas of RF-493 have been characterized and remediated, no such work was allowed on the bluffs. Rifle site Safety & Health policy prohibits any work by Health Physics or other contractor personnel on, or below, these dangerous and unstable slopes.

JR/sh

cc: 4.12
Jim Roeder

TO: Scott Burney	FROM: Steve Hagemann	DATE: 10/15/95
	S.G.M. INC.	PAGES INCLUDING THIS PAGE
FAX #: 625-4623	FAX #: 945-5946	PHONE #: 945-1004

VP 493 SURVEY POINTS AND AREA CALCULATIONS

A	1. 1-5	44.06
	2. 6-9	18.91
	3. 10-16	141.87
B	4. 17-20	89.49
C	5. 21-26	292.53
D	6. 27-30	103.06
E	7. 31-34	154.52
F	8. 35-38	273.59
G	9. 39-41	44.03
H	10. 42-47	329.58
I	11. 48-52	162.27
G	12. 53-56	49.35
J	13. 57-60	192.46
K	14. 61-65	125.87
L	15. 66-67	99.32
M	16. 68-71	66.33
N	17. 72-76	189.14
O	18. 77-82	271.19
M	19. 83-85	10.63
P	20. 86-90	262.06
Q	21. 91-96	252.17

[illegible]

3172.43 58.749 CU.YDS.

SCOTT :

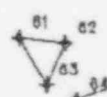
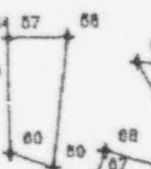
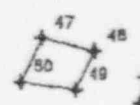
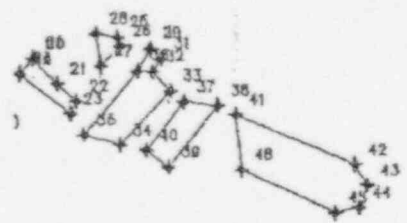
5 feet depth
from these areas

THANKS

STEVE HAGEMANN

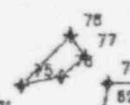
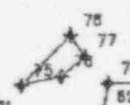
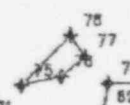
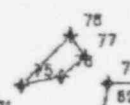
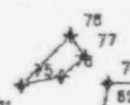
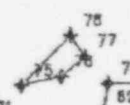
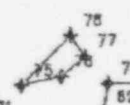
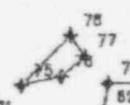
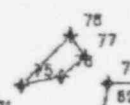
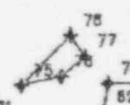
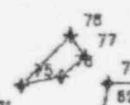
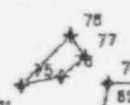
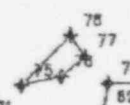
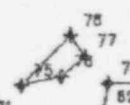
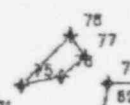
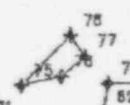
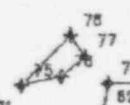
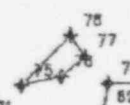
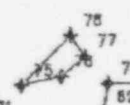
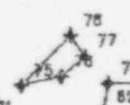
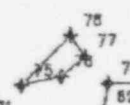
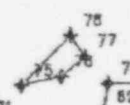
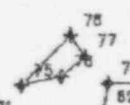
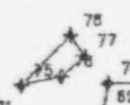
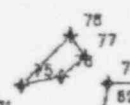
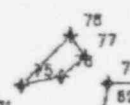
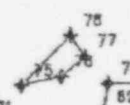
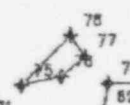
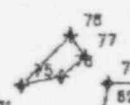
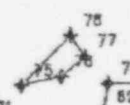
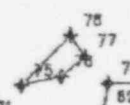
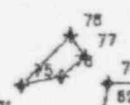
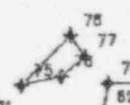
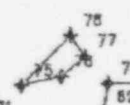
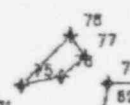
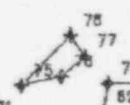
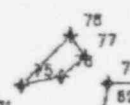
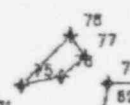
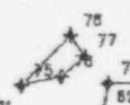
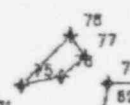
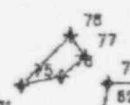
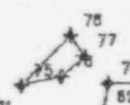
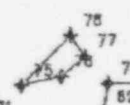
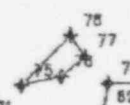
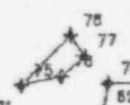
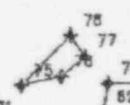
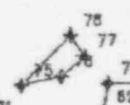
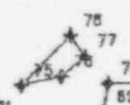
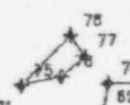
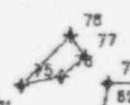
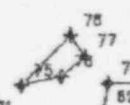
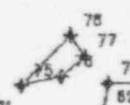
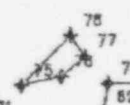
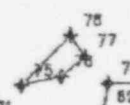
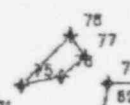
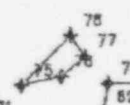
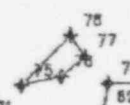
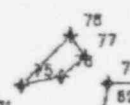
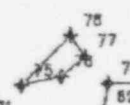
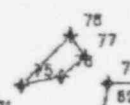
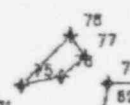
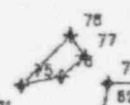
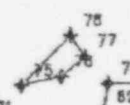
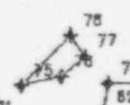
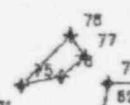
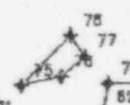
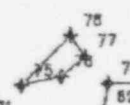
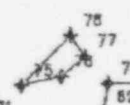
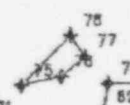
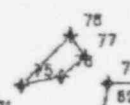
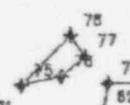
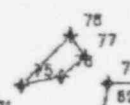
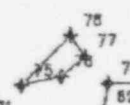
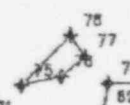
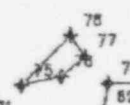
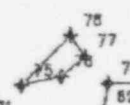
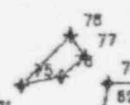
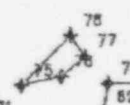
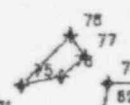
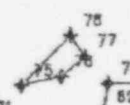
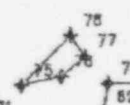
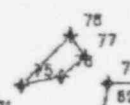
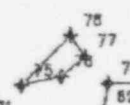
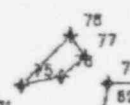
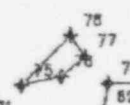
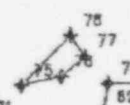
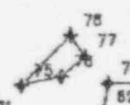
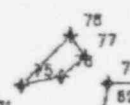
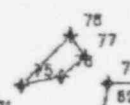
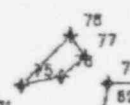
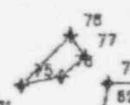
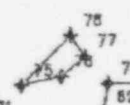
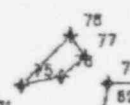
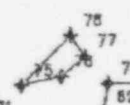
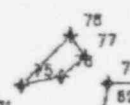
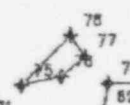
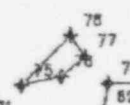
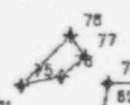
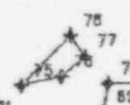
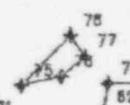
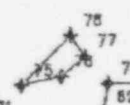
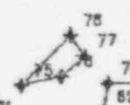
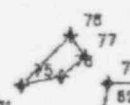
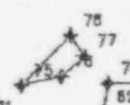
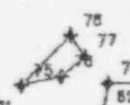
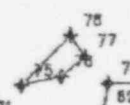
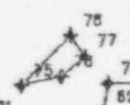
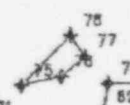
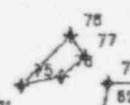
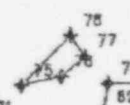
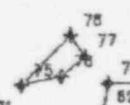
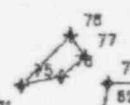
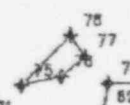
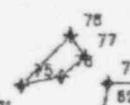
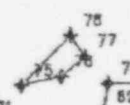
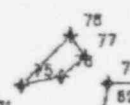
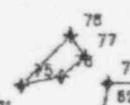
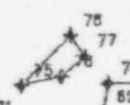
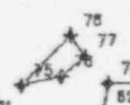
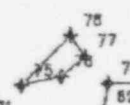
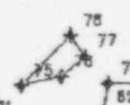
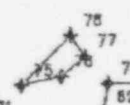
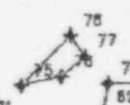
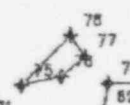
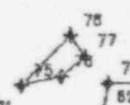
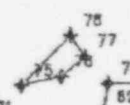
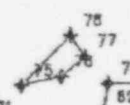
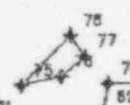
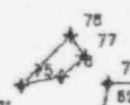
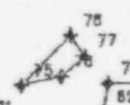
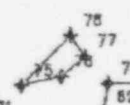
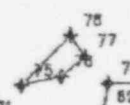
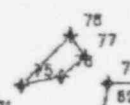
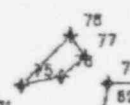
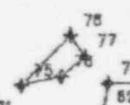
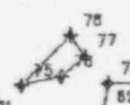
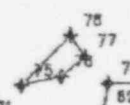
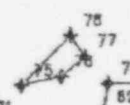
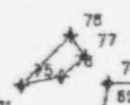
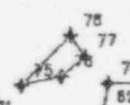
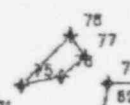
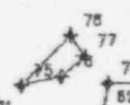
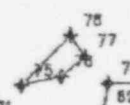
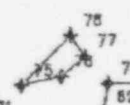
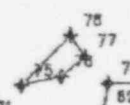
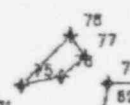
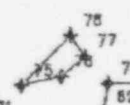
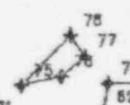
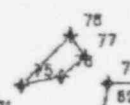
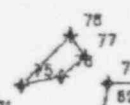
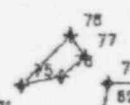
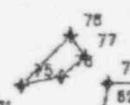
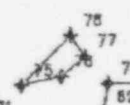
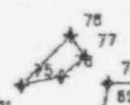
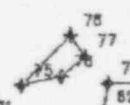
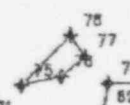
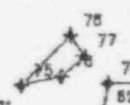
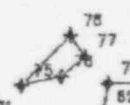
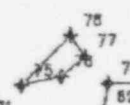
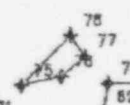
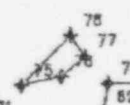
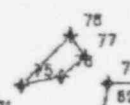
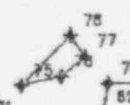
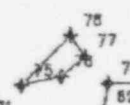
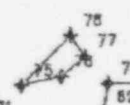
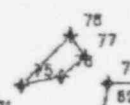
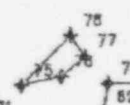
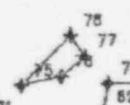
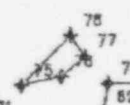
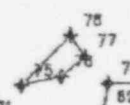
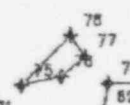
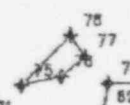
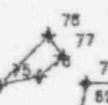
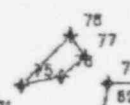
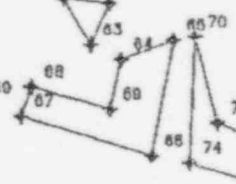
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TO: MK Ferguson Scott Bunnay FAX #: 625-4623	FROM: Steve Hansen SGM FAX #: 945-5940 PHONE #: 945-2004	DATE: 10/16/95 PAGE: 8
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GRAPHIC SCALE

(IN FEET)
1 inch = 80 ft.



1	5000.00000	5000.00000	100.0000	START
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21	26160.99400	60910.19900	5411.5000	2
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23	26154.69800	60912.94500	5411.1790	4
24	26163.04800	60902.35600	5409.2130	5
25	26170.36000	60922.82100	5416.6340	6
26	26168.60600	60923.40800	5415.1060	7
27	26164.56000	60919.29700	5413.6830	8
28	26171.05900	60918.37800	5415.7950	9
29	26168.09100	60929.75600	5415.4320	10
30	26168.09100	60929.75600	5415.3030	10 chk
31	26165.99300	60931.99800	5415.2320	11
32	26163.29600	60930.20700	5413.9440	12
33	26159.27100	60933.93500	5414.6320	13
34	26148.02000	60923.22200	5407.0710	14
35	26150.20200	60915.64900	5407.7930	15
36	26163.46100	60927.09800	5413.7400	16
37	26157.02900	60936.81300	5414.9530	17
38	26156.15400	60943.91000	5416.0950	18
39	26143.19000	60933.36800	5407.2110	19
40	26146.92500	60928.67900	5409.1730	20
41	26154.21200	60947.71500	5415.9040	21
42	26143.40100	60972.62400	5420.9970	22
43	26139.02300	60975.25800	5421.0270	23
44	26134.30900	60973.48600	5420.4250	24
45	26133.20700	60968.51600	5420.5510	25
46	26142.45300	60948.26600	5415.6740	26
47	26133.28200	61001.16300	5423.3380	27
48	26130.45900	61012.10900	5424.0150	28
49	26122.72100	61008.13100	5422.6040	29
50	26124.26400	60996.68000	5421.3410	30
51	26166.08000	60905.15200	5410.7620	1 CHK
52	26162.97200	60902.33600	5409.1400	5 CHK
53	26125.02500	61022.39900	5423.5030	31
54	26122.90800	61043.17500	5422.4180	32
55	26113.39700	61041.29100	5419.3240	33
56	26119.84600	61021.57200	5422.7710	34
57	26123.18600	61049.53900	5421.8050	35
58	26123.50100	61061.91700	5423.1300	36
59	26096.45700	61058.91100	5410.6770	37
60	26099.40100	61049.89600	5412.9710	38
61	26118.28300	61076.37800	5424.6420	39
62	26117.18500	61086.08500	5424.2370	40
63	26108.56200	61082.11300	5420.6540	41
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66	26085.50200	61094.94800	5410.4090	44
67	26093.85500	61067.60000	5410.3170	45
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70	26110.21100	61103.91900	5420.5460	48
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72	26089.57500	61115.19300	5410.3010	50
73	26080.52700	61114.76400	5407.1700	51
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75	26100.09800	61116.69700	5414.1550	53
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79	26100.57700	61134.85800	5420.3680	57
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106	26089.98700	61220.68000	5417.7250	83
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END List

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M=68-71

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N=72-76

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APPENDIX B
APPLICATION FOR SUPPLEMENTAL STANDARDS

B-1

APPENDIX B

APPLICATION FOR SUPPLEMENTAL STANDARDS

TABLE OF CONTENTS

B.1 APPLICABLE EPA CRITERIA

B.2 INTRODUCTION

- B.2.1 Common Location and Legal Description
- B.2.2 Major Physical Features
- B.2.3 Land Use
- B.2.4 Owner's Input

B.3 RADIOLOGICAL DATA

- B.3.1 Health Risk Analysis

B.4 REMEDIATION ALTERNATIVES

B.4.1 Alternative 1 - Complete Remediation (All Contaminated Material)

- B.4.1.1 Work Description
- B.4.1.2 Health Risk Analysis
- B.4.1.3 Construction Parameters
- B.4.1.4 Engineering Data

B.4.2 Alternative 2 - Partial Remediation (Supplemental Standards Application - No Remediation on Bluffs)

- B.4.2.1 Work Description
- B.4.2.2 Health Risk Analysis
- B.4.2.3 Construction Parameters
- B.4.2.4 Engineering Data

B.4.3 Alternative 3 - No Remediation (Supplemental Standards Application)

- B.4.3.1 Work Description
- B.4.3.2 Health Risk Analysis
- B.4.3.3 Construction Parameters
- B.4.3.4 Engineering Data

B.5 SUMMARY

B.6 RECOMMENDATIONS

TABLES

B.T1 Health Risk Analysis

B.T2 Cost Estimate for Alternative 1 - Complete Remediation

B.T3 Cost Estimate for Alternative 2 - Partial Remediation

DRAWINGS

Drawings RF-493-030 thru 038

EXHIBITS

Request for Comments from the Owner

Comments from the Owner

B.1 Applicable EPA Criteria

Supplemental Standards Application is in accordance with the regulations set by the Environmental Protection Agency (EPA) in 40 CFR 192. The potential and applicable criteria as stated in 40 CFR 192.21 are as follows:

- ☒ a) Remedial action would pose a clear and present risk of injury to workers or to members of the public
- ☒ b) Remedial action would directly cause excessive environmental harm
- ☒ c) The cost of remedial action at the vicinity site is unreasonably high relative to long-term benefits
- ☐ d) The cost of remedial action for cleanup of a building is unreasonably high relative to benefits
- ☐ e) There is no known remedial action
- ☐ f) Radionuclides other than Radium-226 and its decay products are present

An "X" indicates the appropriate subsection(s) for this application.

B.2 Introduction

This Supplemental Standards Application pertains to the mill tailings contamination on the south bluff and the bluff on the southwest side of the property. Areas F, G, H, and I represent contamination remaining on the bluff. Due to elevated dose rates in Area I the Colorado Department of Health (CDH) requested and received additional remediation for the express purpose of dose rate reduction. The remediation was completed during the month of October, 1995. Seventeen high outside gamma areas (HOGs), identified by CDH, were excavated and transferred to the New Rifle site. During the excavation personnel were tied off with lanyards for safety purposes. Drawing RF-493-034 depicts the deposits of tailings in the areas for which Supplemental Standards is being applied. The extent of contamination left in all areas covers approximately 2132 square feet.

B.2.1 Common Location and Legal Description

The Supplemental Standards Application is on the south bluff above Highway 6 & 24 and the bluff along the southwest part of the property. RF-479 Highway 6 & 24 right of way borders the property on the south, while Ash Avenue and RF-474 abuts the property on the west and RF-430 on the the east side of the property. The Supplemental Standards area encompasses approximately 2132 square feet.

Legal Description

A tract of land located in the Northwest Quarter of Northwest Quarter (NW 1/4 NW 1/4) of Section 15 and the Northeast Quarter of the Northeast Quarter (NE 1/4 NE 1/4) of Section 16 all in Township 6 South, Range 93 West, of the 6th Principal Meridian being more particularly described as follows:

Beginning at the Northeast (NE Cor.) of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 and considering the North line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 to bear North $89^{\circ}36'59''$ East with all bearings contained herein being relative thereto, Thence South $00^{\circ}30'42''$ East 1268.27 feet along the East line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 to the North right-of-way of State Highway No. 6, Thence Northwesterly along the North right-of-way of State Highway No. 6 to the Northeasterly right-of-way of a County road by the following three courses:

Along the arc of a non-tangent curve to the right whose long chord bears North $80^{\circ}00'30''$ West 306.07 feet and whose radius is 941.8 feet,

North $70^{\circ}34'22''$ West 306.54 feet,

Along the arc of a non-tangent curve to the left whose long chord bears North $74^{\circ}55'17''$ West 300.71 feet and whose radius is 2965.00 feet,

Thence Northwesterly along the Northeasterly right-of-way of the County road by the following two courses:

North $44^{\circ}43'43''$ West 520.14 feet,

Along the arc of a non-tangent curve to the left whose long chord bears North $46^{\circ}21'11''$ West 10.84 feet and whose radius is 200.00 feet;

Thence North $31^{\circ}37'47''$ East 62.43 feet, Thence North $19^{\circ}12'41''$ West 266.70 feet; Thence North $36^{\circ}31'21''$ West 426.67 feet; Thence North $89^{\circ}47'06''$ East 289.47 feet to the Northwest Corner (NW Cor) of said Section 15, Thence North $89^{\circ}36'59''$ East 1328.46 feet to the Point of Beginning along the North line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15, containing 32.915 acres, more or less, with the North 30 feet to be used for road right-of-way purposes.

B.2.2 Major Physical Features

There are no structures on this property. A bluff defines the southeast edge of the property veering north mid way along the south edge of the property. There is a field and two ponds on top of the bluff. The ponds are used by the City of Rifle water treatment plant for overflows.

B.2.3 Land Use

The parts of this property considered for Supplemental Standards Application are not likely to be utilized for any possible use in the future.

B.2.4 Owner's Input

none offered

B.3 Radiological Data

Appendix A contains the radiological data that is relevant to this Supplemental Standards Application.

The radiological conditions within the Supplemental Standards Application area are summarized as follows:

- a. Exposure rate range over contaminated areas - 9 to 30 $\mu\text{R/hr}$.
- b. Average exposure rate over contaminated area (s) - 14 $\mu\text{R/hr}$.
- c. Range for Radium concentration in Supplemental Standards area = 2.1 to 178.6 pCi/g.

B.3.1 Health Risk Analysis

The analysis of health risks is presented in Table B.T1. Exposure potentials are compared with two criteria as follows:

- a. Long-term exposures are examined based on an allowable exposure rate of 100 mrem per year above background (hereinafter referred to as 100 mrem dose).
- b. Short-term unusual exposures are examined based on an allowable exposure rate of 500 mrem per year above background (hereinafter referred to as 500 mrem dose.).

The maximum gamma dose rate at waist level recommended by the International Commission on Radiological Protection (ICRP, 1977, 1978) in DOE ORDER 5400.5 (March 1990) is 100 mrem dose. This is the dose limit for an individual member of the general public. Doses which exceed 100 mrem dose are acceptable when the higher exposures do not persist for long periods and when the average annual dose over an individual's lifetime is expected to be less than 100 mrem dose. The ICRP and the DOE suggest that dose rates be reduced "as low as is reasonably achievable", but also dose. The health risk analysis presented in this Application for Supplemental Standards has compared the dose rates measured at ground level with the recommendation of the ICRP and DOE regarding waist level exposures. This procedure ensures a conservative evaluation.

The long-term exposure analysis considers three scenarios showing the following:

- a. The required number of hours of continuous exposure to obtain the 100 mrem dose. This scenario is intended to model the exposure received by an individual residing on the site in the extreme case where no time away from the site is considered.
- b. The hours per day of exposure during a continuous one year period required to receive the 100 mrem dose. This scenario is intended to represent a maximum allowable daily exposure by an individual who occupies the point where the high gamma reading occurs.
- c. The hours per day of exposure during a one year period utilizing week days only (260 days) required to receive the 100 mrem dose. This scenario models the potential exposure that could be received by an individual working in the area the indicated number of hours daily for one year.

The short-term unusual exposure analysis also considers three potential scenarios as follow:

- a. The required number of hours of continuous exposure to obtain the 500 mrem dose. The intent of this scenario is to allow examination of the estimated time of continuous exposure required to receive the allowable dose.
- b. The number of 48-hour temporary occupancy periods in one year necessary to receive a 500 mrem dose. This scenario represents the case where an individual occupies the site for repair work or other short-term purposes.
- c. The number of 24-hour periods of exposure in one year necessary to receive a 500 mrem dose. This scenario considers emergency operations to perform repair work at the site.

The worst case scenario is based on the minimum background and maximum surface gamma rates that were measured without consideration of the relative physical location of each. In ever case, the scenarios presented above can be described as unlikely, but possible. The scenarios do not create a model of likely situations, but present data that can be used to evaluate the potential for a health hazard if this Supplemental Standards Application is approved.

The maximum known gamma exposure rate above background occurring along the southeastern portion of the Supplemental Standards area is equal to the worst case scenario. The worst case scenario depicts occupation of a site for an average of 9 hours per day during a one year period to receive the 100 mrem dose. It is highly unlikely for this situation to occur due to both the length of time required and the physical location of the exposure rates.

B.4 Remediation Alternatives

Supplemental Standards Application is only one of the available alternatives for compliance with the EPA regulations. Evaluation of an alternative action in any area of tailings contamination logically includes consideration of the cost and health risk associated with the available choice. Three alternatives - Complete

B.4 Remediation Alternatives

Supplemental Standards Application is only one of the available alternatives for compliance with the EPA regulations. Evaluation of an alternative action in any area of tailings contamination logically includes consideration of the cost and health risk associated with the available choice. Three alternatives - Complete Remediation, Partial Remediation (Application of Supplemental Standards), No Remediation (Application of Supplemental Standards) - are considered.

B.4.1 Alternative 1 - Complete Remediation (All Contaminated Material)

B.4.1.1 Work Description

The work required for this Alternative is to pull back the slope in each of the Supplemental Standards areas on the bluff, remediate the contaminated parts of the bluff. All of the remediation would be performed and the property restored to it's original condition.

This would require a substantial amount of work comparable to the amount of benefits received from remediation and there would be a increased risk of injury to personnel. Traffic on highway 6 & 24 would be at risk from the unstable slope above.

B.4.1.2 Health Risk Analysis

Health risks in the Supplemental Standards Application area, due to tailings contamination, would be reduced to within the EPA standards.

B.4.1.3 Construction Parameters

Construction of this alternative consists of laying back the slope to a safe gradient, excavating the contaminated material on the slope and backfill. Provide erosion control, traffic control, temporary retaining barrier and revegetate. The property cannot be restored to it's original condition.

B.4.1.4 Engineering Data

No areas of contamination which exceed the EPA standards will remain in place. The estimated Subcontractor cost of remedial action work required for this alternative is \$763,501.00. The estimated volume of contaminated materials to be removed is 47,746 cubic yards. The average cost to remove the tailing would be \$15.99 per cubic yard.

B.4.2 Alternative 2 - Partial Remediation (Supplemental Standards Application-Remediate Deposits on top of and below Bluff)

B.4.2.1 Work Description

The work involved in this alternative is described in the REA and Completion Report for RF-493. The Supplemental Standards area on the bluff remains in place. This alternative removed all the contamination on the property except the areas on the bluff. In Area "I" seventeen "Hot Spots" were remediated at the direction of CDH.

B.4.2.2 Health Risk Analysis

The health risks associated with this alternative are approximated in Table B.T1. There is a low probability that allowable gamma dose rates will be exceeded based on the data presented in Table B.T1.

B.4.2.3 Construction Parameters

The Construction Parameters were to remediate the contamination on the top of the bluff as close to the edge as safety would permit, backfill, and revegetate. The property is restored to it's original condition.

B.4.2.4 Engineering Data

No areas of contamination which exceed the EPA standards remain in place on the on top of the bluff or below the bluff. The amount of contamination exceeding EPA standards remaining in place is 588 cubic yards. The estimated Subcontractor cost of remedial action work required for this alternative is \$65,976.00.

B.4.3 Alternative 3 - No Remediation (Supplemental Standards Application)

B.4.3.1 Work Description

No work is required for this alternative.

B.4.3.2 Health Risk Analysis

The health risks associated with this alternative is not required since Alternative 2 was performed.

B.4.3.3 Construction Parameters

Construction is not required for this alternative.

B.4.3.4 Engineering Data

No cost is associated with this alternative. All areas of contamination which exceed the EPA standards would remain in place.

B.5 Summary

The data in Table B.T1 suggests that there are no identifiable significant health risks if this Supplemental Standards Application (Partial Remediation) is approved. In the worst case, a person would have to occupy the point of high gamma exposure for a continuous period of 3,333 hours to receive a 100 mrem dose. It is highly unlikely for an individual to be exposed for the amount of time necessary to exceed the recommended annual maximum dose of 100 mrem due to both the length of time required and the physical location of those exposure rates.

Each alternative examined by this Application can be summarized as follows:

Alternative I - Complete Remediation (All Contaminated Material)

Health Risk - Reduced to within EPA standards

Estimated Construction Cost - \$763,501.00

Approximate Volume of Contaminated Materials Removed - 47,746 cubic yards

Approximate Volume of Contaminated Materials Remaining - 0 cubic yards

Alternative 2 - Partial Remediation (Supplemental Standards Application - Remediate Deposits on top of and below Bluff)

Health Risk - Reduced to within EPA standards on top of and below bluff.

Estimated Construction Cost - \$697,525.00

Approximate Volume of Contaminated Materials Removed - 47,158 cubic yards

Approximate Volume of Contaminated Materials Remaining - 588 cubic yards

Alternative 3 - No remediation (Supplemental Standards Application)

Not applicable since Alternative 2 has been performed.

B.6 Recommendations

Supplemental Standards (Partial Remediation) should be applied under 40 CFR 192.21 Criteria A, B, and C (see Section B.1).

TABLE B.T1
HEALTH RISK ANALYSIS
PROPERTY RF-493S

SCENARIO	RESULTS
100 mrem Dose	
A. Required number of hours of continuous exposure to obtain the 100 mrem dose.	3,333 hours
B. The hours per day of exposure during a continuous one year period required to receive the 100 mrem dose.	9 hours per day
C. The hours per day of exposure during a one year period utilizing week days only (260 days) required to receive the 100 mrem dose.	12.82 hours per day
500 mrem Dose	
A. The required number of hours of continuous exposure to obtain the 500 mrem dose.	16,667 hours, which is 694 days, more than one year
B. The number of 48-hour temporary occupancy periods in one year necessary to receive a 500 mrem dose.	The 500 mrem could not be reached standing at the point of the highest gamma continuously in one year.
C. The number of 24-hour periods of exposure in one year necessary to receive a 500 mrem dose.	The 500 mrem could not be reached standing at the point of the highest gamma continuously in one year.

The results are figured from using the point of the highest gamma. A person would have to stand at the point continuously to achieve the dose given.

TABLE B.T2
DOSE RATE SURVEY
PROPERTY RF-493S

LOCATION	MICRO R/HR
AREA H 5+10, 990L	12
6+00, 960L	15
6+30, 930L	15
6+60, 900L	10
7+20, 930L	20
AREA F 9+15, 720L	10
9+25, 675L	10
9+35, 650L	10
AREA I 4+45, 1155L	15
3+65, 1177L	20
3+14, 1193L	25
2+55, 1205L	30
2+23, 1228L	30
1+69, 1224L	20
1+16, 1236L	12
0+08, 1184L	9
0+08, 1210L	9
0+19, 1254L	13
AREA G 8+69, 820L	10
8+89, 805L	12
9+18, 781L	10
AREA I	
A 3+95, 1160L	15
B 3+80, 1175L	15
C 3+60, 1185L	15
D 3+10, 1195L	12

TABLE B.T2
DOSE RATE SURVEY
PROPERTY RF-493S

LOCATION	MICRO R/HR
E 2+80, 1205L	15
F 2+65, 1215L	12
G 2+35, 1210L	15
H 2+25, 1225L	12
I 2+10, 1230L	12
J 1+70, 1225L	15
K 1+60, 1240L	15
L 1+55, 1245L	10
M 1+25, 1235L	12
N 1+15, 1245L	15
O 1+00, 1250L	10
P 0+45, 1245L	10
Q 0+10, 1260L	12

TABLE B.T3
SUPPLEMENTAL STANDARDS
SOIL SAMPLE SURVEY
PROPERTY RF-493

SAMPLE ID	LOCATION	DEPTH	FINAL RA-226 CONC. (pCi/g)
RFL-SS-8588	9+17, 778L	0-15	2.2
RFL-SS-8589	8+88, 805L	0-15	2.1
RFL-SS-8591	8+69, 820L	0-15	3.5
RFL-SS-8592	5+10, 990L	0-15	27.8
RFL-SS-8593	6+00, 960L	0-15	27.7
RFL-SS-8594	6+60, 900L	0-15	7.7
RFL-SS-8595	7+20, 930L	0-15	36.5
RFL-SS-8596	6+30, 930L	0-15	15.1
RFL-SS-8616	3+65, 1177L	0-15	119.0
RFL-SS-8617	3+14, 1193L	0-15	43.3
RFL-SS-8618	2+55, 1205L	0-15	18.0
RFL-SS-8619	2+23, 1228L	0-15	178.6
RFL-SS-8620	1+69, 1224L	0-15	19.8
RFL-SS-8621	1+16, 1236L	0-15	17.8
RFL-SS-8639	4+45, 1155L	0-15	12.4

TABLE B.T4
SUPPLEMENTAL STANDARDS
OUTDOOR GAMMA AND BOREHOLE SURVEY
PROPERTY RF-493S

BH#	LOCATION	CONTAM. DEPTH	MICRO R/HR
1	9+22, 638L	NONE	17.99
2	9+19, 665L	0-6"	20.57
3	9+19, 720L	NONE	18.77
4	9+19, 720L	0-6"	21.53
5	9+42, 630L	0-6"	21.05
6	9+50, 671L	0-6"	25.19
7	9+18, 778L	0-18"	46.49
8	9+00, 805L	0-6"	21.59
9	8+70, 820L	0-6"	20.45
10	7+30, 900L	0-6"	32.15
11	7+05, 920L	0-6"	30.65
12	6+95, 920L	0-6"	23.57
13	6+95, 935L	0-6"	26.09
14	6+70, 905L	0-6"	45.23
15	6+30, 945L	0-12"	27.11
16	6+35, 965L	0-6"	21.59
17	5+95, 990L	0-6"	21.83
18	5+50, 985L	0-42"	23.63
19	5+20, 970L	0-6"	18.71
20	5+85, 950L	0-6"	22.25
21	6+35, 935L	0-6"	23.93
22	4+95, 980L	0-6"	19.49

TABLE B.T4
SUPPLEMENTAL STANDARDS
OUTDOOR GAMMA AND BOREHOLE SURVEY
PROPERTY RF-493S

BH#	LOCATION	CONTAM. DEPTH	MICRO R/HR
23	4+40, 1147L	NONE	15.71
24	4+40, 1154L	0-6"	33.47
25	4+41, 1146L	NONE	18.11
26	4+11, 1161L	0-18"	84.65
27	3+67, 1173L	NONE	17.51
28	3+67, 1181L	0-18"	120.11
29	3+16, 1180L	NONE	18.11
30	3+16, 1196L	0-24"	54.11
31	2+67, 1192L	NONE	16.91
32	2+67, 1203L	0-6"	27.71
33	2+67, 1212L	0-12"	27.11
34	2+20, 1204L	NONE	15.71
35	2+20, 1215L	0-18"	57.11
36	2+20, 1225L	0-12"	84.11
37	1+76, 1215L	0-6"	18.71
38	1+76, 1228L	0-6"	33.11
39	1+23, 1218L	0-6"	18.71
40	1+23, 1238L	0-6"	21.11
41	0+76, 1219L	NONE	18.11
42	0+76, 1247L	0-6"	31.31
43	0+30, 1233L	NONE	18.11
44	0+30, 1250L	0-6"	18.71

TABLE B.T4
SUPPLEMENTAL STANDARDS
OUTDOOR GAMMA AND BOREHOLE SURVEY
PROPERTY RF-493S

BH#	LOCATION	CONTAM. DEPTH	MICRO R/HR
45	0+52, 1194L	NONE	16.61
46	0+13, 1225L	NONE	17.69
47	0+13, 1241L	0-6"	23.33

TABLE B.T5
SUPPLEMENTAL STANDARDS
VERIFICATION SUMMARY AREA "I"
PROPERTY RF-493S

LOCATION	COORDINATES	EXCAVATED DEPTH (in.)	SAMPLE ID (RFL-SV-)	FINAL RA-226 CONC. (pCi/g.)
A1	see attached	0-15cm	8240	16.7
A2				
A3				
B		0-15cm	8241	4.0
C		0-15cm	8242	3.3
D		0-15cm	8243	3.9
E		0-15cm	8244	4.2
F		0-15cm	8245	10.4
G		0-15cm	8246	1.9
H		0-15cm	8247	1.7
I		0-15cm	8248	3.7
J		0-15cm	8249	5.4
K		0-15cm	8250	2.2
L		0-15cm	8251	1.2
O		0-15cm	8252	1.4
N		0-15cm	8253	2.4
M		0-15cm	8254	2.2
P		0-15cm	8255	1.3
Q		0-15cm	8256	2.8

APPENDIX C
LEGAL DESCRIPTION

LEGAL DESCRIPTION

The property which is the subject of this Completion Report, the address of which is NE of Old Rifle Site, North of Highway 6, Rifle, Colorado, is more particularly described in the Garfield County Recorder's Office, as follows:

A tract of land located in the Northwest Quarter of Northwest Quarter (NW 1/4 NW 1/4) of Section 15 and the Northeast Quarter of the Northeast Quarter (NE 1/4 NE 1/4) of Section 16 all in Township 6 South, Range 93 West, of the 6th Principal Meridian being more particularly described as follows:

Beginning at the Northeast (NE Cor.) of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 and considering the North line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 to bear North 89°36'59" East with all bearings contained herein being relative thereto, Thence South 00° 30' 42" East 1268.27 feet along the East line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15 to the North right-of-way of State Highway No. 6, Thence Northwesterly along the North right-of-way of State Highway No. 6 to the Northeasterly right-of-way of a County road by the following three courses:

Along the arc of a non-tangent curve to the right whose long chord bears North 80°00'30" West 306.07 feet and whose radius is 941.8 feet,

North 70°34'22" West 306.54 feet,

Along the arc of a non-tangent curve to the left whose long chord bears North 74°55'17" West 300.71 feet and whose radius is 2965.00 feet,

Thence Northwesterly along the Northeasterly right-of-way of the County road by the following two courses:

North 44°43'43" West 520.14 feet,

Along the arc of a non-tangent curve to the left whose long chord bears North 46°21'11" West 10.84 feet and whose radius is 200.00 feet;

Thence North 31°37'47" East 62.43 feet, Thence North 19°12'41" West 266.70 feet; Thence North 36°31'21" West 426.67 feet; Thence North 89°47'06" East 289.47 feet to the Northwest Corner (NW Cor) of said Section 15, Thence North 89°36'59" East 1328.46 feet to the Point of Beginning along the North line of the Northwest Quarter of the Northwest Quarter (NW 1/4 NW 1/4) of said Section 15, containing 32.915 acres, more or less, with the North 30 feet to be used for road right-of-way purposes.



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