

APPENDIX D

**HUMAN HEALTH EXPOSURE POINT CALCULATIONS & EPA FIELD
TRIP REPORT FOR HOME SITES REMOVAL ACTION**

**SUMMARY OF HOME SITE REMOVAL ACTION
EPA FIELD TRIP REPORT**

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EPA FIELD TRIP REPORT**



Environmental Protection Agency
Region 9
1400 North Central Expressway
Phoenix, Arizona 85004
Tel: (602) 972-2000
Fax: (602) 972-2001

Tuesday, September 11, 2007

Attn: Harry Allen, USEPA On-Scene Coordinator
Andy Bain, USEPA Remedial Project Manager

Subject: NECR Home Site Investigation Trip Report
NECR Home Sites,
Red Water Pond Road
Church Rock, McKinley County, New Mexico

Introduction

The United States Environmental Protection Agency Region 9 (EPA) Emergency Response Section (ERS), and Remedial Program Management (RPM) sections tasked the Ecology and Environment Inc. under a General Services Administration (GSA) contract to provide technical assistance with an in-depth site assessment and removal of surface soils at the North East Church Rock (NECR) home site locations. The NECR home site investigation included indoor air radon sampling, outdoor airborne particulate sampling and monitoring, and post removal confirmation soil sampling. The EPA offered the United States Coast Guard (USCG) Pacific Strike Team members for additional site support during the scheduled field activities.

The purpose of this report is provide a brief presentation of the un-validated radiation data from EPA sampling activities conducted at the NECR home sites. Confirmation soil and indoor air samples were collected in April through June 2007. The Final Status Survey (FSS) analysis of the confirmation soil sample data will be prepared in a separate report and submitted to EPA later this year.

Background

The NECR mine site is an inactive uranium mine site that operated from 1968 until 1982 with waste water treatment activities from 1979 until 1983. The mine was closed between 1986 and 1994 in accordance with Nuclear Regulatory Commission (NRC) requirements under Title II of the Uranium Mill Tailings Radiation Control Act (UMTRCA). The mine was operated by United Nuclear Corporation (UNC), the Potentially Responsible Party (PRP), who retained MWH to conduct investigations at the mine. Most of the mine is located on Navajo Indian Trust land with portions on Navajo Indian Reservation and UNC owned land.

The NRC regulated cleanup action only addresses mill tailings, thus contamination remains on the site. At the request of the Navajo Nation Environmental Protection Agency (NNEPA), the EPA became involved in November of 2005 to oversee the investigation and remediation of the site. The EPA required UNC to conduct a Removal Site Evaluation (RSE) to determine the extent of contamination and perform a risk assessment, the initial fieldwork was completed in December 2006. MWH issued the draft RSE in April 2007 and it is currently undergoing revisions. Additional mine history, mining practices, and pertinent background information is detailed in the Final Removal Site Evaluation Work Plan (MWH 2006).

During the RSE, EPA identified nine home sites for surface soil investigation. However, UNC refused to investigate one of the properties, thereby only eight home sites investigations were performed for surface soil contamination. Of those eight locations, three were found to have elevated radiation levels above the screening level of 2.24 pCi/g (picoCuries per gram) Radium-226. Based on those results, the EPA initiated further investigations and actions to mitigate potential exposures to the radioactive contamination. On April 18 and 19, 2007, E&E staff and sub-contractor Carl Palladino of The Palladino Company (TPC), conducted indoor radiation surveys of the three home sites and investigated one additional home site for surface soil contamination. The three homes did not demonstrate elevated levels of indoor gamma radiation. The soil survey conducted at the additional home site showed elevated levels of gamma radiation and five surface soil samples were collected and submitted to a laboratory for Radium 226 analysis. The analytical results for this sampling event are located in Appendix A. On May 29, 2007, EPA signed a separate Action Memorandum to address one additional property located to the east of Red Water Pond Road.

Site Location

The Northeast Church Rock Mine Residential Removal Site is located near Red Water Pond Road and Highway 566 in Church Rock, New Mexico, (Figure 1) in the Coyote Chapter of the Navajo Reservation. The site consists of several residential areas down gradient and down wind of the 125-acre Northeast Church Rock Mine Site (Figure 2). Figures 1 and 2 are located in Appendix B. Based on sampling performed by GE in November and December 2006, three residential areas demonstrated elevated levels of radium 226 in the surface soil. The contaminated areas exceeded the site clean up level of 2.24 pCi/g (approximately twice background).

Sampling Approach

In consultation with the Navajo Nation Environmental Protection Agency, EPA determined the need to take prompt action to address the residential areas, following evaluation of the RP-conducted RSE. EPA signed the NECR Residential Action Memo on April 18, 2007 and immediately initiated negotiations with the PRPs. EPA issued a Unilateral Administrative Order on May 4, 2007 ordering UNC to undertake transportation and disposal, while EPA took responsibility for the excavation and sampling components.

Beginning on May 7, 2007 for approximately 4 weeks, EPA On-Scene Coordinator Harry L. Allen, RPM Andy Bain, representatives from the United State Coast Guard (USCG) Pacific Strike Team, GSA contractors from E&E and TPC mobilized to site to begin the NECR home site investigation. Using the EPA established a soil cleanup goal of 2.24 pCi/g radium 226 for

surface soil sampling, and 4.0 pCi/L for radon for the indoor air sampling, GSA contractors conducted the following activities at each home site location.

1. Conduct perimeter air sampling and monitoring during soil removal activities,
2. Conduct air sampling for radon-222 inside residential homes,
3. Delineate the extent of soil contamination to direct removal activities,
4. Conduct confirmation soil sampling for laboratory analysis,
5. Conduct final status surveys at all residential properties in accordance with the Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM).

Sampling and Analytical Results

Perimeter Air Monitoring and Sampling

During soil excavation operations air samplers and personal dust meters were set up around the perimeter of the property. No readings on the samplers or dust meters exceeded the site action level of 150 pCi/m³ (pico Curies per meter cubed). Photo documentation of the air sampling and monitoring is located in Appendix C.

Indoor Air Sampling

Indoor air sampling was set up in the main section of each home and hogan within each property utilizing diffusion barrier charcoal canisters. Radon results for each home site are located below in Table 1. The EPA recommended action level for radon is 4.0 pico Curies per Liter (pCi/L). In order to protect the property owners, the properties will be identified as properties A-D and area E.

Canister Serial Number	Location/Location Code	Radon Activity Results (pCi/L)
870035	A-2	0.9
870036	A-3	5.2*
866483	*Post Removal Re-Sample	2.6
870037	C-2	1.7
870038	B-1	2.5
870039	B-2	2.4
870041	B-4	2.6
870043	C-3	2.2
870044	A-4	5.4*
866482	*Post Removal Re-Sample	3.1
870045	C-1	1.4
870046	B-3	2.4
870047	A-1	1.0
870048	C-4	2.5
866484	D-1	1.6

863735	D-2	1.6
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Pico Curies per Liter (pCi/L)
Bolded results exceed the site action level of 4.0 pCi/L.

Samples labeled with the numbers 1 or 2, indicate samples collected within the houses. Samples labeled with numbers 3 or 4, indicate the samples were collected from the hogan. During the initial indoor sampling event, the radon results were all within normal range except for canisters A-3 and A-4. This hogan was rescanned and contaminated sections of concrete and soil were removed. After the new concrete set, the hogan was re-sampled for radon. The radon results for the re-sampled hogan were within in the normal range of less than 4.0 pCi/L.

Surface Soil Screening and Confirmation Sampling

GSA contractors began pre-excavation gamma scanning to determine the lateral bounds of contamination for each parcel. Each defined area was excavated and evaluated using the MARSSIM Final Status Survey approach prior to backfilling and restoring the properties. Following MARSSIM guideline, excavated areas were 100% scanned. For additional sampling specific information, the Emergency Response (ER) Quality Assurance Sampling Plan (QASP) is located in Appendix D.

After the affected areas were delineated and excavated, the GSA contractor with assistance from the USCG, performed another 100% scan of the newly exposed soil. Areas continuing to demonstrate elevated gamma levels were re-excavated until gamma levels were below the site action level. Listed below is an example of the MARSSIM FSS calculation values used to determine the sampling locations within each sampling grid on each of the four home sites A-D and road E between the home sites B and C:

Area = 22,000 ft²
 Samples = 32 (Minimum)
 Length of Triangle grid = 28 ft
 Area of Triangle = 679 ft²
 DCGLw = 2.24 pCi/g
 DCGLemc = 3.1 pCi/g

An Excel random number generator established the first sample point within each grid. Subsequent sampling locations were at 28 foot triangular distances. A total of nine survey units were delineated on the four home sites and the connecting road that demonstrated elevated levels of gamma radiation. The survey units were delineated as listed below.

Survey Unit and ID	Location/Property Sampling ID
1 – HS01	A
2 – HS02	C
3 – HS03	C
4 – HS04	B, C, and E
5 – HS05	B
6 – HS06	B
7 – HS07	B
8 – HS08	D
9 – HS09	D

A total of 371 confirmation soil sample locations were collected from four residential properties. Soils were excavated from 3 inches to 12 inches in depth, depending on the gamma concentrations from the field screening. The un-validated Radium-226 analytical results for the soil samples collected in each of the survey units, is located in Tables one through nine in Appendix A. Also available on those Tables are the sampling identification/locations and gamma screening data collected from the field survey units one through seven. Gamma survey data for survey units eight and nine are not available. Additionally, the sample maps for properties A, B and C are labeled respectively Figure 3, Figure 4 and Figure 5 are located in Appendix B. In the Tables one through nine, bolded analytical results are radium 226 levels detected above the site action level of 2.24 pCi/g.

Conclusion

EPA Region 9 (Superfund Division) Health Physicist, Robert Terry reviewed the ER QASP and the analytical data for Radon and Radium 226. He concluded that the data sets were of good quality and nearly all the measurements are quite low. In summary, this report was a brief presentation of the data collected during EPA field activities in April through June 2007. Later this year, an FSS analysis report will be written to evaluate the confirmation soil sample data based on MARSSIM requirements.

Sincerely,

Robin Clemens
GSA Contractor
Ecology and Environment, Inc.
Project Manager

Appendix A – NECR Home Site Data
Appendix B – NECR Home Site Maps and Figures
Appendix C – Photo Documentation
Appendix D– NECR ER Home Site QASP

APPENDIX A

NECR HOME SITE DATA

**Table 1
NECR Home Site Survey Unit 1 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results**

Collection Date	Matrix	Sample ID	Sample Location ID	Field Screening Results		Confirmation Soil Analytical Results	
				Gamma (x 10 ³)	Units	Radium 226	Units
05-15-2007	SOIL	HS01-01	A1-1	13.1	C/M	0.505	pCi/g
05-15-2007	SOIL	HS01-02	A1-2	13.3	C/M	1.30	pCi/g
05-15-2007	SOIL	HS01-03	A1-3	13.1	C/M	0.759	pCi/g
05-15-2007	SOIL	HS01-04	A1-4	12.9	C/M	0.610	pCi/g
05-15-2007	SOIL	HS01-05	A1-5	13.6	C/M	0.723	pCi/g
05-15-2007	SOIL	HS01-06	A1-6	13.5	C/M	0.602	pCi/g
05-15-2007	SOIL	HS01-07	A1-7	13.0	C/M	0.842	pCi/g
05-15-2007	SOIL	HS01-08	A1-8	13.7	C/M	0.932	pCi/g
05-15-2007	SOIL	HS01-09	A1-9	13.2	C/M	0.764	pCi/g
05-15-2007	SOIL	HS01-10	A1-10	12.7	C/M	0.462	pCi/g
05-15-2007	SOIL	HS01-11	A1-11	13.1	C/M	0.642	pCi/g
05-15-2007	SOIL	HS01-12	A1-12	13.4	C/M	0.707	pCi/g
05-15-2007	SOIL	HS01-13	A1-13	12.7	C/M	0.715	pCi/g
05-15-2007	SOIL	HS01-14	A1-14	12.7	C/M	0.653	pCi/g
05-15-2007	SOIL	HS01-15	A1-15	13.4	C/M	0.635	pCi/g
05-15-2007	SOIL	HS01-16	A1-16	12.8	C/M	0.630	pCi/g
05-15-2007	SOIL	HS01-17	A1-17	12.7	C/M	0.701	pCi/g
05-15-2007	SOIL	HS01-18	A1-18	12.9	C/M	0.733	pCi/g
05-15-2007	SOIL	HS01-19	A1-19	13.6	C/M	1.48	pCi/g
05-15-2007	SOIL	HS01-20	A1-20	13.5	C/M	0.871	pCi/g
05-15-2007	SOIL	HS01-21	A1-21	13.3	C/M	0.601	pCi/g
05-15-2007	SOIL	HS01-22	A1-22	13.4	C/M	0.580	pCi/g
05-15-2007	SOIL	HS01-23	A1-23	13.6	C/M	1.01	pCi/g
05-15-2007	SOIL	HS01-24	A1-24	13.9	C/M	0.878	pCi/g
05-15-2007	SOIL	HS01-25	A1-25	13.6	C/M	0.878	pCi/g
05-15-2007	SOIL	HS01-26	A1-26	13.3	C/M	0.756	pCi/g
05-15-2007	SOIL	HS01-27	A1-27	15.5	C/M	1.18	pCi/g
05-15-2007	SOIL	HS01-28	A1-28	15.4	C/M	0.977	pCi/g
05-15-2007	SOIL	HS01-29	A1-29	20.7	C/M	3.46	pCi/g
05-15-2007	SOIL	HS01-30	A1-30	13.4	C/M	1.05	pCi/g
05-15-2007	SOIL	HS01-31	A1-31	14.0	C/M	1.06	pCi/g
05-15-2007	SOIL	HS01-32	A1-32	14.4	C/M	0.967	pCi/g
05-15-2007	SOIL	HS01-33	A1-33	14.0	C/M	1.19	pCi/g
05-15-2007	SOIL	HS01-34	A1-34	14.0	C/M	1.10	pCi/g
05-15-2007	SOIL	HS01-35	A1-11-Dup	13.1	C/M	0.853	pCi/g
05-15-2007	SOIL	HS01-36	A1-18Dup	12.9	C/M	0.772	pCi/g
05-15-2007	SOIL	HS01-37	A1-33Dup	14.0	C/M	1.20	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

Table 2
NECR Home Site Survey Unit 2 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results

Collection Date	Matrix	Sample ID	Sample Location ID	Field Screening Results		Confirmation Soil Analytical Results	
				Gamma (x 10 ³)	Units	Radium 226	Units
05-19-2007	SOIL	HS02-01	C2-2	14.2	C/M	0.738	pCi/g
05-19-2007	SOIL	HS02-02	C2-6	13.0	C/M	0.709	pCi/g
05-19-2007	SOIL	HS02-03	C2-7	13.6	C/M	0.776	pCi/g
05-19-2007	SOIL	HS02-04	C2-11	14.2	C/M	0.836	pCi/g
05-19-2007	SOIL	HS02-05	C2-12	13.4	C/M	0.817	pCi/g
05-19-2007	SOIL	HS02-06	C2-13	13.8	C/M	0.760	pCi/g
05-19-2007	SOIL	HS02-07	C2-18	14.0	C/M	0.812	pCi/g
05-19-2007	SOIL	HS02-08	C2-19	13.9	C/M	0.840	pCi/g
05-19-2007	SOIL	HS02-09	C2-20	13.2	C/M	0.692	pCi/g
05-19-2007	SOIL	HS02-10	C2-26	13.8	C/M	0.802	pCi/g
05-19-2007	SOIL	HS02-11	C2-27	13.7	C/M	0.773	pCi/g
05-19-2007	SOIL	HS02-12	C2-28	12.7	C/M	0.743	pCi/g
05-19-2007	SOIL	HS02-13	C2-29	12.9	C/M	0.729	pCi/g
05-19-2007	SOIL	HS02-14	C2-34	14.2	C/M	1.02	pCi/g
05-19-2007	SOIL	HS02-15	C2-35	13.6	C/M	0.755	pCi/g
05-19-2007	SOIL	HS02-16	C2-36	12.3	C/M	0.723	pCi/g
05-19-2007	SOIL	HS02-17	C2-42	13.6	C/M	1.04	pCi/g
05-19-2007	SOIL	HS02-18	C2-43	13.4	C/M	0.968	pCi/g
05-19-2007	SOIL	HS02-19	C2-44	13.3	C/M	0.744	pCi/g
05-19-2007	SOIL	HS02-20	C2-45	13.4	C/M	0.961	pCi/g
05-19-2007	SOIL	HS02-21	C2-50	14.1	C/M	0.934	pCi/g
05-19-2007	SOIL	HS02-22	C2-51	12.8	C/M	0.840	pCi/g
05-19-2007	SOIL	HS02-23	C2-52	14.3	C/M	0.731	pCi/g
05-19-2007	SOIL	HS02-24	C2-56	13.8	C/M	0.836	pCi/g
05-19-2007	SOIL	HS02-25	C2-57	13.4	C/M	0.783	pCi/g
05-19-2007	SOIL	HS02-26	C2-58	12.1	C/M	0.822	pCi/g
05-19-2007	SOIL	HS02-27	C2-59	12.0	C/M	0.810	pCi/g
05-19-2007	SOIL	HS02-28	C2-65	13.8	C/M	0.789	pCi/g
05-19-2007	SOIL	HS02-29	C2-66	12.9	C/M	0.791	pCi/g
05-19-2007	SOIL	HS02-30	C2-67	12.9	C/M	0.870	pCi/g
05-19-2007	SOIL	HS02-31	C2-73	14.3	C/M	0.887	pCi/g
05-19-2007	SOIL	HS02-32	C2-74	14.3	C/M	0.951	pCi/g
05-19-2007	SOIL	HS02-33	C2-75	13.6	C/M	0.877	pCi/g
05-19-2007	SOIL	HS02-34	C2-81	13.5	C/M	0.796	pCi/g
05-19-2007	SOIL	HS02-35	C2-82	13.8	C/M	0.893	pCi/g
05-19-2007	SOIL	HS02-36	C2-83	14.5	C/M	0.771	pCi/g
05-19-2007	SOIL	HS02-37	C2-86	14.6	C/M	0.878	pCi/g
05-19-2007	SOIL	HS02-38	C2-87	14.5	C/M	0.836	pCi/g
05-19-2007	SOIL	HS02-39	C2-88	15.0	C/M	0.975	pCi/g
05-19-2007	SOIL	HS02-41	Dup of C2-57	13.4	C/M	0.841	pCi/g
05-19-2007	SOIL	HS02-42	Dup of C2-66	12.9	C/M	0.816	pCi/g
05-19-2007	SOIL	HS02-43	Dup of C2-81	13.5	C/M	0.894	pCi/g
05-19-2007	SOIL	HS02-44	Dup of C2-67	12.9	C/M	0.839	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

Table 3
NECR Home Site Survey Unit 3 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results

				Field Screening Results		Confirmation Soil Analytical Results	
Collection Date	Matrix	Sample ID	Sample Location ID	Gamma (x 10 ³)	Units	Radium 226	Units
05-19-2007	SOIL	HS03-01	C3-3	13.2	C/M	0.662	pCi/g
05-19-2007	SOIL	HS03-02	C3-4	13.2	C/M	0.623	pCi/g
05-19-2007	SOIL	HS03-03	C3-8	13.6	C/M	0.644	pCi/g
05-19-2007	SOIL	HS03-04	C3-9	13.9	C/M	0.646	pCi/g
05-19-2007	SOIL	HS03-05	C3-14	13.6	C/M	0.631	pCi/g
05-19-2007	SOIL	HS03-06	C3-15	14.1	C/M	0.750	pCi/g
05-19-2007	SOIL	HS03-07	C3-21	13.2	C/M	0.699	pCi/g
05-19-2007	SOIL	HS03-08	C3-22	13.3	C/M	0.775	pCi/g
05-19-2007	SOIL	HS03-09	C3-30	13.3	C/M	0.685	pCi/g
05-19-2007	SOIL	HS03-10	C3-31	14.1	C/M	0.967	pCi/g
05-19-2007	SOIL	HS03-11	C3-37	13.0	C/M	0.672	pCi/g
05-19-2007	SOIL	HS03-12	C3-38	14.9	C/M	1.81	pCi/g
05-19-2007	SOIL	HS03-13	C3-39	13.4	C/M	0.692	pCi/g
05-19-2007	SOIL	HS03-14	C3-40	14.8	C/M	0.917	pCi/g
05-19-2007	SOIL	HS03-15	C3-41	13.1	C/M	0.871	pCi/g
05-19-2007	SOIL	HS03-16	C3-46	13.5	C/M	0.757	pCi/g
05-19-2007	SOIL	HS03-17	C3-47	13.5	C/M	0.787	pCi/g
05-19-2007	SOIL	HS03-18	C3-48	14.3	C/M	0.929	pCi/g
05-19-2007	SOIL	HS03-19	C3-49	14.1	C/M	0.904	pCi/g
05-19-2007	SOIL	HS03-20	C3-53	13.4	C/M	0.834	pCi/g
05-19-2007	SOIL	HS03-21	C3-54	14.0	C/M	0.540	pCi/g
05-19-2007	SOIL	HS03-22	C3-55	14.1	C/M	0.942	pCi/g
05-19-2007	SOIL	HS03-23	C3-60	13.8	C/M	0.959	pCi/g
05-19-2007	SOIL	HS03-24	C3-61	13.2	C/M	0.598	pCi/g
05-19-2007	SOIL	HS03-25	C3-63	14.7	C/M	1.63	pCi/g
05-19-2007	SOIL	HS03-26	C3-64	14.7	C/M	0.844	pCi/g
05-19-2007	SOIL	HS03-27	C3-68	12.8	C/M	0.622	pCi/g
05-19-2007	SOIL	HS03-28	C3-69	14.8	C/M	0.638	pCi/g
05-19-2007	SOIL	HS03-29	C3-70	14.2	C/M	0.823	pCi/g
05-19-2007	SOIL	HS03-30	C3-71	13.6	C/M	0.720	pCi/g
05-19-2007	SOIL	HS03-31	C3-72	14.0	C/M	0.826	pCi/g
05-19-2007	SOIL	HS03-32	C3-76	13.6	C/M	0.610	pCi/g
05-19-2007	SOIL	HS03-33	C3-77	14.2	C/M	0.799	pCi/g
05-19-2007	SOIL	HS03-34	C3-78	13.4	C/M	0.648	pCi/g
05-19-2007	SOIL	HS03-35	C3-79	14.1	C/M	0.795	pCi/g
05-19-2007	SOIL	HS03-36	C3-80	14.3	C/M	0.835	pCi/g
05-19-2007	SOIL	HS03-37	C3-84	14.5	C/M	0.624	pCi/g
05-19-2007	SOIL	HS03-38	C3-85	13.5	C/M	0.654	pCi/g
05-19-2007	SOIL	HS03-39	C3-89	13.4	C/M	0.791	pCi/g
05-19-2007	SOIL	HS03-40	C3-90	12.3	C/M	0.567	pCi/g
05-19-2007	SOIL	HS03-41	Dup of C3-64	14.7	C/M	0.995	pCi/g
05-19-2007	SOIL	HS03-42	Dup of C3-68	12.8	C/M	0.472	pCi/g
05-19-2007	SOIL	HS03-43	Dup of C3- 4	13.2	C/M	0.685	pCi/g
05-19-2007	SOIL	HS03-44	Dup of C3-85	13.5	C/M	0.644	pCi/g
05-19-2007	SOIL	HS03-45	Dup of C3-62	14.8	C/M	1.03	pCi/g

Table 4
NECR Home Site Survey Unit 4 Data
Field Screening Data and
Confirmation Soil Sampling Radium 226 Results

Collection Date	Matrix	Sample ID	Sample Location ID	Field Screening Results		Confirmation Soil Analytical Results	
				Gamma (x 10 ³)	Units	Radium 226	Units
05-19-2007	SOIL	HSO4-01	C4-1	12.8	C/M	0.594	pCi/g
05-19-2007	SOIL	HSO4-02	C4-5	13.3	C/M	0.786	pCi/g
05-19-2007	SOIL	HSO4-03	C4-10	13.2	C/M	0.601	pCi/g
05-19-2007	SOIL	HSO4-04	C4-16	16.7	C/M	0.691	pCi/g
05-19-2007	SOIL	HSO4-05	C4-17	14.2	C/M	1.66	pCi/g
05-19-2007	SOIL	HSO4-06	C4-23	13.3	C/M	0.759	pCi/g
05-19-2007	SOIL	HSO4-07	C4-24	14.4	C/M	0.929	pCi/g
05-19-2007	SOIL	HSO4-08	C4-25	13.8	C/M	0.948	pCi/g
05-19-2007	SOIL	HSO4-09	C4-32	14.0	C/M	0.901	pCi/g
05-19-2007	SOIL	HSO4-10	C4-33	14.4	C/M	0.903	pCi/g
05-20-2007	SOIL	HSO4-11	E4-1	14.0	C/M	0.803	pCi/g
05-20-2007	SOIL	HSO4-12	E4-2	13.7	C/M	0.826	pCi/g
05-20-2007	SOIL	HSO4-13	E4-3	13.6	C/M	0.606	pCi/g
05-20-2007	SOIL	HSO4-14	E4-4	12.8	C/M	0.944	pCi/g
05-20-2007	SOIL	HSO4-15	E4-5	12.9	C/M	0.987	pCi/g
05-20-2007	SOIL	HSO4-16	E4-6	12.9	C/M	0.679	pCi/g
05-20-2007	SOIL	HSO4-17	E4-7	13.2	C/M	0.674	pCi/g
05-20-2007	SOIL	HSO4-18	E4-8	13.5	C/M	0.768	pCi/g
05-20-2007	SOIL	HSO4-19	E4-9	12.8	C/M	0.725	pCi/g
05-20-2007	SOIL	HSO4-20	E4-10	12.0	C/M	0.590	pCi/g
05-20-2007	SOIL	HSO4-21	E4-11	13.2	C/M	0.575	pCi/g
05-20-2007	SOIL	HSO4-22	E4-12	13.0	C/M	0.730	pCi/g
05-20-2007	SOIL	HSO4-23	E4-13	12.5	C/M	0.604	pCi/g
05-20-2007	SOIL	HSO4-24	E4-14	12.9	C/M	0.497	pCi/g
05-20-2007	SOIL	HSO4-25	E4-15	12.4	C/M	0.750	pCi/g
05-20-2007	SOIL	HSO4-26	E4-16	13.1	C/M	0.562	pCi/g
05-20-2007	SOIL	HSO4-27	E4-17	12.4	C/M	0.579	pCi/g
05-20-2007	SOIL	HSO4-28	E4-18	12.9	C/M	0.642	pCi/g
05-20-2007	SOIL	HSO4-29	E4-19	12.2	C/M	0.741	pCi/g
05-20-2007	SOIL	HSO4-30	E4-20	12.0	C/M	0.555	pCi/g
05-22-2007	SOIL	HSO4-31	B4-1	13.1	C/M	0.679	pCi/g
05-22-2007	SOIL	HSO4-32	B4-2	13.2	C/M	0.717	pCi/g
05-22-2007	SOIL	HSO4-33	B4-3	13.0	C/M	1.29	pCi/g
05-22-2007	SOIL	HSO4-34	B4-4	14.8	C/M	3.37	pCi/g
05-22-2007	SOIL	HSO4-35	B4-5	14.6	C/M	0.815	pCi/g
05-22-2007	SOIL	HSO4-36	B4-6	12.8	C/M	0.546	pCi/g
05-22-2007	SOIL	HSO4-37	B4-7	12.6	C/M	0.579	pCi/g
05-22-2007	SOIL	HSO4-38	B4-8	13.2	C/M	0.813	pCi/g
05-22-2007	SOIL	HSO4-39	B4-9	13.8	C/M	1.09	pCi/g
05-22-2007	SOIL	HSO4-40	B4-10	13.9	C/M	0.747	pCi/g
05-22-2007	SOIL	HSO4-41	B4-11	13.3	C/M	0.422	pCi/g
05-22-2007	SOIL	HSO4-42	B4-12	12.5	C/M	0.562	pCi/g

05-22-2007	SOIL	HSO4-43	B4-13	12.6	C/M	0.650	pCi/g
05-22-2007	SOIL	HSO4-44	B4-14	14.4	C/M	0.956	pCi/g
05-22-2007	SOIL	HSO4-45	B4-15	13.8	C/M	1.02	pCi/g
05-22-2007	SOIL	HSO4-46	B4-16	14.5	C/M	0.719	pCi/g
05-22-2007	SOIL	HSO4-47	B4-17	13.0	C/M	0.508	pCi/g
05-22-2007	SOIL	HSO4-48	B4-18	12.9	C/M	0.590	pCi/g
05-22-2007	SOIL	HSO4-49	B4-19	13.6	C/M	0.680	pCi/g
05-22-2007	SOIL	HSO4-50	B4-20	13.0	C/M	0.613	pCi/g
05-22-2007	SOIL	HSO4-51	B4-21	12.6	C/M	0.743	pCi/g
05-22-2007	SOIL	HSO4-52	B4-22	13.1	C/M	0.521	pCi/g
05-22-2007	SOIL	HSO4-53	B4-23	13.8	C/M	0.693	pCi/g
05-22-2007	SOIL	HSO4-54	Dup of C4-5	13.3	C/M	0.734	pCi/g
05-22-2007	SOIL	HSO4-55	Dup of E4-7	13.2	C/M	0.757	pCi/g
05-22-2007	SOIL	HSO4-56	Dup of E4-16	13.1	C/M	0.504	pCi/g
05-22-2007	SOIL	HSO4-57	Dup of B4-8	13.2	C/M	1.10	pCi/g
05-22-2007	SOIL	HSO4-58	Dup of B4-11	13.3	C/M	0.501	pCi/g
05-22-2007	SOIL	HSO4-59	Dup of B4-22	13.1	C/M	0.547	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

Table 5
NECR Home Site Survey Unit 5 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results

				Field Screening Results		Confirmation Soil Analytical Results	
Collection Date	Matrix	Sample ID	Sample Location ID	Gamma (x 10 ³)	Units	Radium 226	Units
05-22-2007	SOIL	HS05-01	B5-24	13.6	C/M	0.670	pCi/g
05-22-2007	SOIL	HS05-02	B5-25	13.4	C/M	0.702	pCi/g
05-22-2007	SOIL	HS05-03	B5-26	13.4	C/M	0.602	pCi/g
05-22-2007	SOIL	HS05-04	B5-27	14.2	C/M	0.665	pCi/g
05-22-2007	SOIL	HS05-05	B5-28	14.0	C/M	0.545	pCi/g
05-22-2007	SOIL	HS05-06	B5-29	13.3	C/M	0.677	pCi/g
05-22-2007	SOIL	HS05-07	B5-30	13.3	C/M	0.776	pCi/g
05-22-2007	SOIL	HS05-08	B5-31	13.4	C/M	0.783	pCi/g
05-22-2007	SOIL	HS05-09	B5-32	12.7	C/M	0.815	pCi/g
05-22-2007	SOIL	HS05-10	B5-33	12.5	C/M	0.663	pCi/g
05-22-2007	SOIL	HS05-11	B5-34	13.6	C/M	0.730	pCi/g
05-22-2007	SOIL	HS05-12	B5-35	13.4	C/M	0.743	pCi/g
05-22-2007	SOIL	HS05-13	B5-36	13.1	C/M	0.538	pCi/g
05-22-2007	SOIL	HS05-14	B5-37	13.0	C/M	1.75	pCi/g
05-22-2007	SOIL	HS05-15	B5-38	12.2	C/M	0.576	pCi/g
05-22-2007	SOIL	HS05-16	B5-39	13.5	C/M	0.629	pCi/g
05-22-2007	SOIL	HS05-17	B5-40	13.6	C/M	0.764	pCi/g
05-22-2007	SOIL	HS05-18	B5-41	13.4	C/M	0.732	pCi/g
05-22-2007	SOIL	HS05-19	B5-42	13.2	C/M	0.802	pCi/g
05-22-2007	SOIL	HS05-20	B5-43	13.4	C/M	0.697	pCi/g
05-22-2007	SOIL	HS05-21	B5-44	12.5	C/M	0.661	pCi/g
05-22-2007	SOIL	HS05-22	B5-45	13.1	C/M	0.767	pCi/g
05-22-2007	SOIL	HS05-23	B5-46	14.3	C/M	0.604	pCi/g
05-22-2007	SOIL	HS05-24	B5-47	13.7	C/M	0.771	pCi/g
05-22-2007	SOIL	HS05-25	B5-48	14.2	C/M	0.741	pCi/g
05-22-2007	SOIL	HS05-26	B5-49	13.7	C/M	0.781	pCi/g
05-22-2007	SOIL	HS05-27	B5-51	12.3	C/M	0.773	pCi/g
05-22-2007	SOIL	HS05-28	B5-52	12.6	C/M	0.906	pCi/g
05-22-2007	SOIL	HS05-29	B5-53	13.5	C/M	0.611	pCi/g
05-22-2007	SOIL	HS05-30	B5-54	13.1	C/M	0.680	pCi/g
05-22-2007	SOIL	HS05-31	B5-55	14.0	C/M	0.639	pCi/g
05-22-2007	SOIL	HS05-32	B5-56	13.8	C/M	0.628	pCi/g
05-22-2007	SOIL	HS05-33	B5-57	13.8	C/M	0.791	pCi/g
05-22-2007	SOIL	HS05-34	B5-58	13.2	C/M	0.535	pCi/g
05-22-2007	SOIL	HS05-35	B5-59	13.8	C/M	0.840	pCi/g
05-22-2007	SOIL	HS05-36	B5-60	13.5	C/M	0.862	pCi/g
05-22-2007	SOIL	HS05-37	B5-61	12.6	C/M	0.606	pCi/g
05-22-2007	SOIL	HS05-38	B5-62	14.0	C/M	0.663	pCi/g
05-22-2007	SOIL	HS05-39	B5-63	13.7	C/M	0.801	pCi/g
05-22-2007	SOIL	HS05-40	B5-64	12.9	C/M	0.621	pCi/g

05-22-2007	SOIL	HSO5-41	B5-65	12.3	C/M	0.742	pCi/g
05-22-2007	SOIL	HSO5-42	B5-66	12.3	C/M	0.678	pCi/g
05-22-2007	SOIL	HSO5-43	B5-67	14.2	C/M	0.741	pCi/g
05-22-2007	SOIL	HSO5-44	B5-68	13.3	C/M	0.721	pCi/g
05-22-2007	SOIL	HSO5-45	B5-69	14.5	C/M	0.731	pCi/g
05-22-2007	SOIL	HSO5-46	B5-70	13.6	C/M	0.750	pCi/g
05-22-2007	SOIL	HSO5-47	Dup of B5-30	13.3	C/M	0.559	pCi/g
05-22-2007	SOIL	HSO5-48	Dup of B5-40	13.6	C/M	0.627	pCi/g
05-22-2007	SOIL	HSO5-49	Dup of B5-43	13.4	C/M	0.911	pCi/g
05-22-2007	SOIL	HSO5-50	Dup of B5-53	13.5	C/M	0.694	pCi/g
05-22-2007	SOIL	HSO5-51	Dup of B5-67	14.2	C/M	0.681	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

Table 6
NECR Home Site Survey Unit 6 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results

				Field Screening Results		Confirmation Soil Analytical Results	
Collection Date	Matrix	Sample ID	Sample Location ID	Gamma (x 10 ³)	Units	Radium 226	Units
05-22-2007	SOIL	HSO6-01	B6-71	13.5	C/M	0.566	pCi/g
05-22-2007	SOIL	HSO6-02	B6-72	13.9	C/M	1.58	pCi/g
05-22-2007	SOIL	HSO6-03	B6-73	13.0	C/M	0.811	pCi/g
05-22-2007	SOIL	HSO6-04	B6-74	14.0	C/M	0.835	pCi/g
05-22-2007	SOIL	HSO6-05	B6-75	14.2	C/M	0.691	pCi/g
05-22-2007	SOIL	HSO6-06	B6-76	13.7	C/M	2.43	pCi/g
05-22-2007	SOIL	HSO6-07	B6-78	13.2	C/M	0.788	pCi/g
05-22-2007	SOIL	HSO6-08	B6-79	14.3	C/M	0.720	pCi/g
05-22-2007	SOIL	HSO6-09	B6-80	13.2	C/M	0.652	pCi/g
05-22-2007	SOIL	HSO6-10	B6-81	14.3	C/M	0.697	pCi/g
05-22-2007	SOIL	HSO6-11	B6-82	13.0	C/M	0.746	pCi/g
05-22-2007	SOIL	HSO6-12	B6-83	13.5	C/M	0.720	pCi/g
05-22-2007	SOIL	HSO6-13	B6-84	13.8	C/M	0.695	pCi/g
05-22-2007	SOIL	HSO6-14	B6-85	15.0	C/M	1.10	pCi/g
05-22-2007	SOIL	HSO6-15	B6-86	14.6	C/M	1.26	pCi/g
05-22-2007	SOIL	HSO6-16	B6-87	13.3	C/M	0.670	pCi/g
05-22-2007	SOIL	HSO6-17	B6-88	13.6	C/M	0.599	pCi/g
05-22-2007	SOIL	HSO6-18	B6-89	13.6	C/M	0.680	pCi/g
05-22-2007	SOIL	HSO6-19	B6-90	15.3	C/M	0.815	pCi/g
05-22-2007	SOIL	HSO6-20	B6-91	15.3	C/M	0.637	pCi/g
05-22-2007	SOIL	HSO6-21	B6-92	13.7	C/M	1.11	pCi/g
05-22-2007	SOIL	HSO6-22	B6-93	13.8	C/M	0.575	pCi/g
05-22-2007	SOIL	HSO6-23	B6-94	13.7	C/M	0.699	pCi/g
05-22-2007	SOIL	HSO6-24	B6-95	13.5	C/M	0.950	pCi/g
05-22-2007	SOIL	HSO6-25	B6-96	14.6	C/M	0.698	pCi/g
05-22-2007	SOIL	HSO6-26	B6-97	14.5	C/M	0.697	pCi/g
05-22-2007	SOIL	HSO6-27	B6-99	14.2	C/M	0.639	pCi/g
05-22-2007	SOIL	HSO6-28	B6-100	14.2	C/M	0.764	pCi/g
05-22-2007	SOIL	HSO6-29	B6-101	15.1	C/M	0.553	pCi/g
05-22-2007	SOIL	HSO6-30	B6-102	14.2	C/M	0.792	pCi/g
05-22-2007	SOIL	HSO6-31	B6-103	14.0	C/M	0.652	pCi/g
05-22-2007	SOIL	HSO6-32	B6-104	14.1	C/M	0.697	pCi/g
05-22-2007	SOIL	HSO6-33	B6-105	14.7	C/M	0.946	pCi/g
05-22-2007	SOIL	HSO6-34	B6-106	13.5	C/M	0.843	pCi/g
05-22-2007	SOIL	HSO6-35	B6-107	14.9	C/M	0.725	pCi/g
05-22-2007	SOIL	HSO6-36	B6-108	14.6	C/M	0.646	pCi/g
05-22-2007	SOIL	HSO6-37	B6-109	15.0	C/M	0.596	pCi/g
05-22-2007	SOIL	HSO6-38	B6-110	14.8	C/M	0.854	pCi/g
05-22-2007	SOIL	HSO6-39	B6-112	15.4	C/M	0.616	pCi/g
05-22-2007	SOIL	HSO6-40	B6-113	15.0	C/M	1.54	pCi/g

05-22-2007	SOIL	HSO6-41	B6-114	15.6	C/M	1.31	pCi/g
05-22-2007	SOIL	HSO6-42	B6-115	14.4	C/M	0.964	pCi/g
05-22-2007	SOIL	HSO6-43	B6-116	15.8	C/M	0.808	pCi/g
05-22-2007	SOIL	HSO6-44	Dup of B6-73	13.0	C/M	0.531	pCi/g
05-22-2007	SOIL	HSO6-45	Dup of B6-88	13.6	C/M	0.590	pCi/g
05-22-2007	SOIL	HSO6-46	Dup of B6-106	13.5	C/M	0.748	pCi/g
05-22-2007	SOIL	HSO6-47	Dup of B6-110	14.8	C/M	0.742	pCi/g
05-22-2007	SOIL	HSO6-48	Dup of B6-77	14.1	C/M	0.726	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

**Table 7
NECR Home Site Survey Unit 7 Data
Field Screening Results and
Confirmation Soil Sampling Radium 226 Results**

Collection Date	Matrix	Sample ID	Sample Location ID	Field Screening Results		Confirmation Soil Analytical Results	
				Gamma (x 10 ³)	Units	Radium 226	Units
05-22-2007	SOIL	HS07-01	B7-50	13.6	C/M	0.586	pCi/g
05-22-2007	SOIL	HS07-02	B7-98	14.4	C/M	0.850	pCi/g
05-22-2007	SOIL	HS07-03	B7-111	15.1	C/M	1.19	pCi/g
05-22-2007	SOIL	HS07-04	B7-1	16.1	C/M	0.586	pCi/g
05-22-2007	SOIL	HS07-05	B7-2	15.2	C/M	0.868	pCi/g
05-22-2007	SOIL	HS07-06	B7-3	14.8	C/M	0.665	pCi/g
05-22-2007	SOIL	HS07-07	B7-4	15.4	C/M	0.822	pCi/g
05-22-2007	SOIL	HS07-08	B7-5	14.7	C/M	0.692	pCi/g
05-22-2007	SOIL	HS07-09	B7-6	16.1	C/M	0.577	pCi/g
05-22-2007	SOIL	HS07-10	B7-7	15.4	C/M	0.809	pCi/g
05-22-2007	SOIL	HS07-11	B7-8	15.9	C/M	0.773	pCi/g
05-22-2007	SOIL	HS07-12	B7-9	15.0	C/M	0.803	pCi/g
05-22-2007	SOIL	HS07-13	B7-10	15.7	C/M	0.536	pCi/g
05-22-2007	SOIL	HS07-14	B7-11	15.4	C/M	0.520	pCi/g
05-22-2007	SOIL	HS07-15	B7-12	16.1	C/M	0.746	pCi/g
05-22-2007	SOIL	HS07-16	B7-13	16.7	C/M	0.783	pCi/g
05-22-2007	SOIL	HS07-17	B7-14	16.6	C/M	0.956	pCi/g
05-22-2007	SOIL	HS07-18	B7-15	15.5	C/M	0.587	pCi/g
05-22-2007	SOIL	HS07-19	B7-16	16.1	C/M	0.645	pCi/g
05-22-2007	SOIL	HS07-20	B7-17	15.7	C/M	0.596	pCi/g
05-22-2007	SOIL	HS07-21	B7-18	15.6	C/M	1.20	pCi/g
05-22-2007	SOIL	HS07-22	B7-19	15.4	C/M	0.600	pCi/g
05-22-2007	SOIL	HS07-23	B7-20	15.8	C/M	0.586	pCi/g
05-22-2007	SOIL	HS07-24	B7-21	16.4	C/M	0.626	pCi/g
05-22-2007	SOIL	HS07-25	B7-22	16.2	C/M	0.502	pCi/g
05-22-2007	SOIL	HS07-26	B7-23	16.7	C/M	0.617	pCi/g
05-22-2007	SOIL	HS07-27	B7-24	16.1	C/M	0.552	pCi/g
05-22-2007	SOIL	HS07-28	B7-25	16.1	C/M	0.872	pCi/g
05-22-2007	SOIL	HS07-29	B7-26	16.6	C/M	0.822	pCi/g
05-22-2007	SOIL	HS07-30	B7-27	16.8	C/M	0.780	pCi/g
05-22-2007	SOIL	HS07-31	B7-28	15.2	C/M	0.698	pCi/g
05-22-2007	SOIL	HS07-32	B7-29	15.1	C/M	0.722	pCi/g
05-22-2007	SOIL	HS07-33	Dup of B7-5	14.7	C/M	0.682	pCi/g
05-22-2007	SOIL	HS07-34	Dup of B7-10	15.7	C/M	0.755	pCi/g
05-22-2007	SOIL	HS07-35	Dup of B7-21	16.4	C/M	0.733	pCi/g

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

-C/M is Counts per Minute.

Table 8
NECR Home Site Survey Unit 8 Data
Confirmation Soil Sampling Radium 226 Results

Collection Date	Matrix	Sample ID	Analyte	R Result	R Units	R MDL	R PQL
06-01-2007	SOIL	HSO8-01	Radium-226	4.24	pCi/g	0.136	0.500
06-01-2007	SOIL	HSO8-02	Radium-226	1.22	pCi/g	0.121	0.500
06-01-2007	SOIL	HSO8-03	Radium-226	1.10	pCi/g	0.139	0.500
06-01-2007	SOIL	HSO8-04	Radium-226	0.988	pCi/g	0.105	0.500
06-01-2007	SOIL	HSO8-05	Radium-226	1.69	pCi/g	0.0988	0.500
06-01-2007	SOIL	HSO8-06	Radium-226	3.20	pCi/g	0.128	0.500
06-01-2007	SOIL	HSO8-07	Radium-226	0.931	pCi/g	0.101	0.500
06-01-2007	SOIL	HSO8-08	Radium-226	1.59	pCi/g	0.110	0.500
06-01-2007	SOIL	HSO8-09	Radium-226	1.07	pCi/g	0.143	0.500
06-01-2007	SOIL	HSO8-10	Radium-226	1.30	pCi/g	0.128	0.500
06-01-2007	SOIL	HSO8-11	Radium-226	1.01	pCi/g	0.115	0.500
06-01-2007	SOIL	HSO8-12	Radium-226	0.955	pCi/g	0.106	0.500
06-01-2007	SOIL	HSO8-13	Radium-226	1.01	pCi/g	0.100	0.500
06-01-2007	SOIL	HSO8-14	Radium-226	0.887	pCi/g	0.0992	0.500
06-01-2007	SOIL	HSO8-15	Radium-226	0.788	pCi/g	0.116	0.500
06-01-2007	SOIL	HSO8-16	Radium-226	0.912	pCi/g	0.101	0.500
06-01-2007	SOIL	HSO8-17	Radium-226	0.996	pCi/g	0.133	0.500
06-01-2007	SOIL	HSO8-18	Radium-226	1.34	pCi/g	0.120	0.500
06-01-2007	SOIL	HSO8-19	Radium-226	1.01	pCi/g	0.146	0.500
06-01-2007	SOIL	HSO8-20	Radium-226	0.823	pCi/g	0.120	0.500
06-01-2007	SOIL	HSO8-21	Radium-226	0.947	pCi/g	0.106	0.500
06-01-2007	SOIL	HSO8-22	Radium-226	0.869	pCi/g	0.114	0.500
06-01-2007	SOIL	HSO8-23	Radium-226	1.87	pCi/g	0.152	0.500
06-01-2007	SOIL	HSO8-24	Radium-226	0.779	pCi/g	0.117	0.500
06-01-2007	SOIL	HSO8-25	Radium-226	0.942	pCi/g	0.100	0.500
06-01-2007	SOIL	HSO8-26	Radium-226	3.07	pCi/g	0.126	0.500
06-01-2007	SOIL	HSO8-27	Radium-226	0.927	pCi/g	0.0911	0.500
06-01-2007	SOIL	HSO8-28	Radium-226	0.947	pCi/g	0.101	0.500
06-01-2007	SOIL	HSO8-29	Radium-226	0.680	pCi/g	0.0865	0.500
06-01-2007	SOIL	HSO8-30	Radium-226	1.14	pCi/g	0.144	0.500
06-01-2007	SOIL	HSO8-31	Radium-226	0.749	pCi/g	0.119	0.500
06-01-2007	SOIL	HSO8-32	Radium-226	2.20	pCi/g	0.109	0.500

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

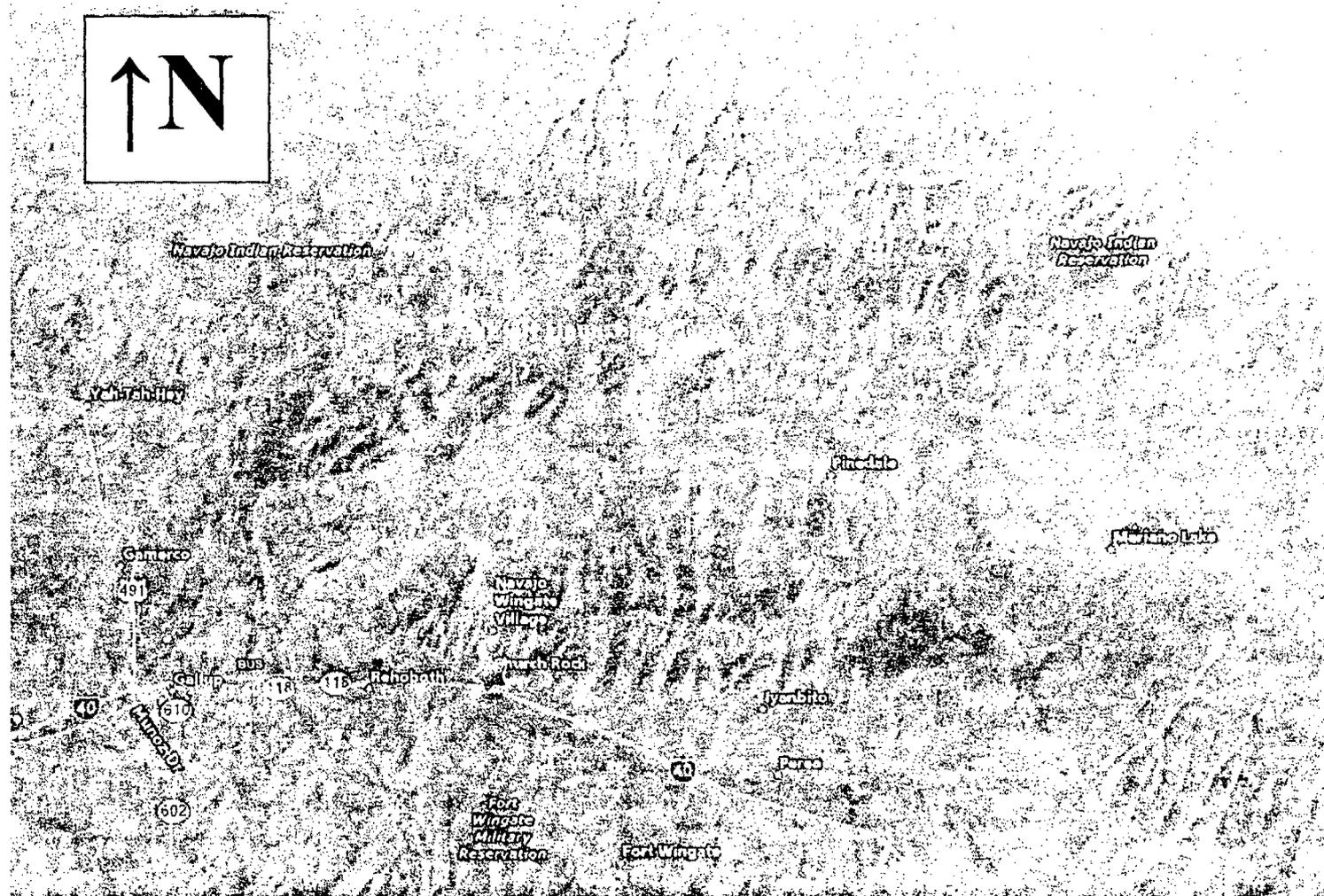
Table 9
NECR Home Site Survey Unit 9 Data
Confirmation Soil Sampling Radium 226 Results

Collection Date	Matrix	Sample ID	Analyte	R Result	R Units	R MDL	R PQL
06-02-2007	SOIL	HSO9-01	Radium-226	2.60	pCi/g	0.109	0.500
06-02-2007	SOIL	HSO9-02	Radium-226	1.09	pCi/g	0.0977	0.500
06-02-2007	SOIL	HSO9-03	Radium-226	1.03	pCi/g	0.165	0.500
06-02-2007	SOIL	HSO9-04	Radium-226	0.786	pCi/g	0.0896	0.500
06-02-2007	SOIL	HSO9-05	Radium-226	1.04	pCi/g	0.094	0.500
06-02-2007	SOIL	HSO9-06	Radium-226	0.882	pCi/g	0.130	0.500
06-02-2007	SOIL	HSO9-07	Radium-226	0.876	pCi/g	0.0988	0.500
06-02-2007	SOIL	HSO9-08	Radium-226	0.968	pCi/g	0.108	0.500
06-02-2007	SOIL	HSO9-09	Radium-226	0.832	pCi/g	0.0968	0.500
06-02-2007	SOIL	HSO9-10	Radium-226	1.11	pCi/g	0.120	0.500
06-02-2007	SOIL	HSO9-11	Radium-226	1.06	pCi/g	0.116	0.500
06-02-2007	SOIL	HSO9-12	Radium-226	0.841	pCi/g	0.122	0.500
06-02-2007	SOIL	HSO9-13	Radium-226	0.705	pCi/g	0.136	0.500
06-02-2007	SOIL	HSO9-14	Radium-226	0.804	pCi/g	0.139	0.500
06-02-2007	SOIL	HSO9-15	Radium-226	0.900	pCi/g	0.121	0.500
06-02-2007	SOIL	HSO9-16	Radium-226	0.745	pCi/g	0.123	0.500
06-02-2007	SOIL	HSO9-17	Radium-226	0.958	pCi/g	0.129	0.500
06-02-2007	SOIL	HSO9-18	Radium-226	0.970	pCi/g	0.120	0.500
06-02-2007	SOIL	HSO9-19	Radium-226	1.04	pCi/g	0.110	0.500
06-02-2007	SOIL	HSO9-20	Radium-226	0.907	pCi/g	0.116	0.500

-Bolded results are levels about the site action level of 2.24 pCi/g (pico Curies per Gram).

APPENDIX B

NECR HOME SITE MAPS AND FIGURES



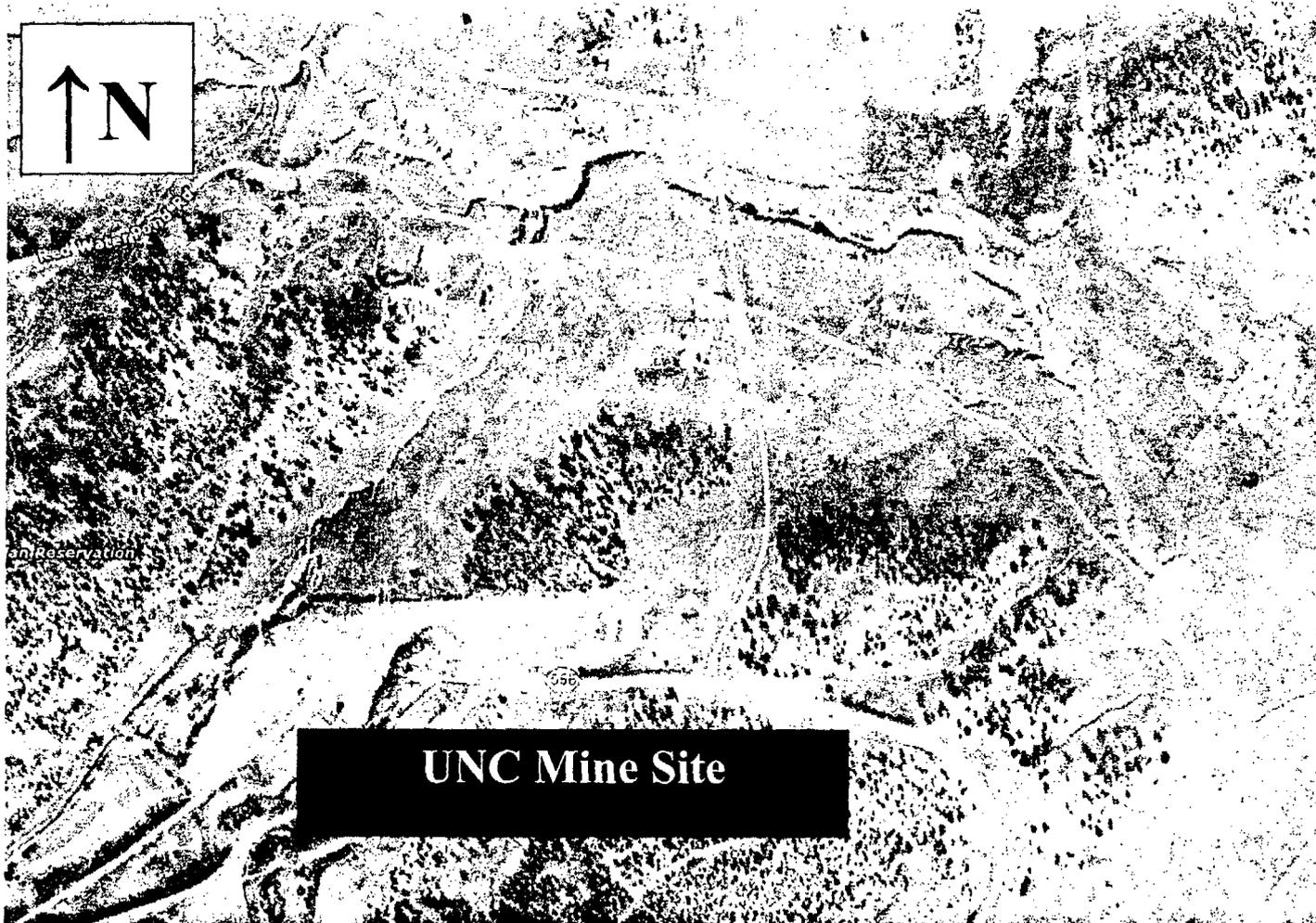
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico

GSA Contact Number: GS-10F-0160J

E&E Project Number: 001096.OX42.01

August 2007

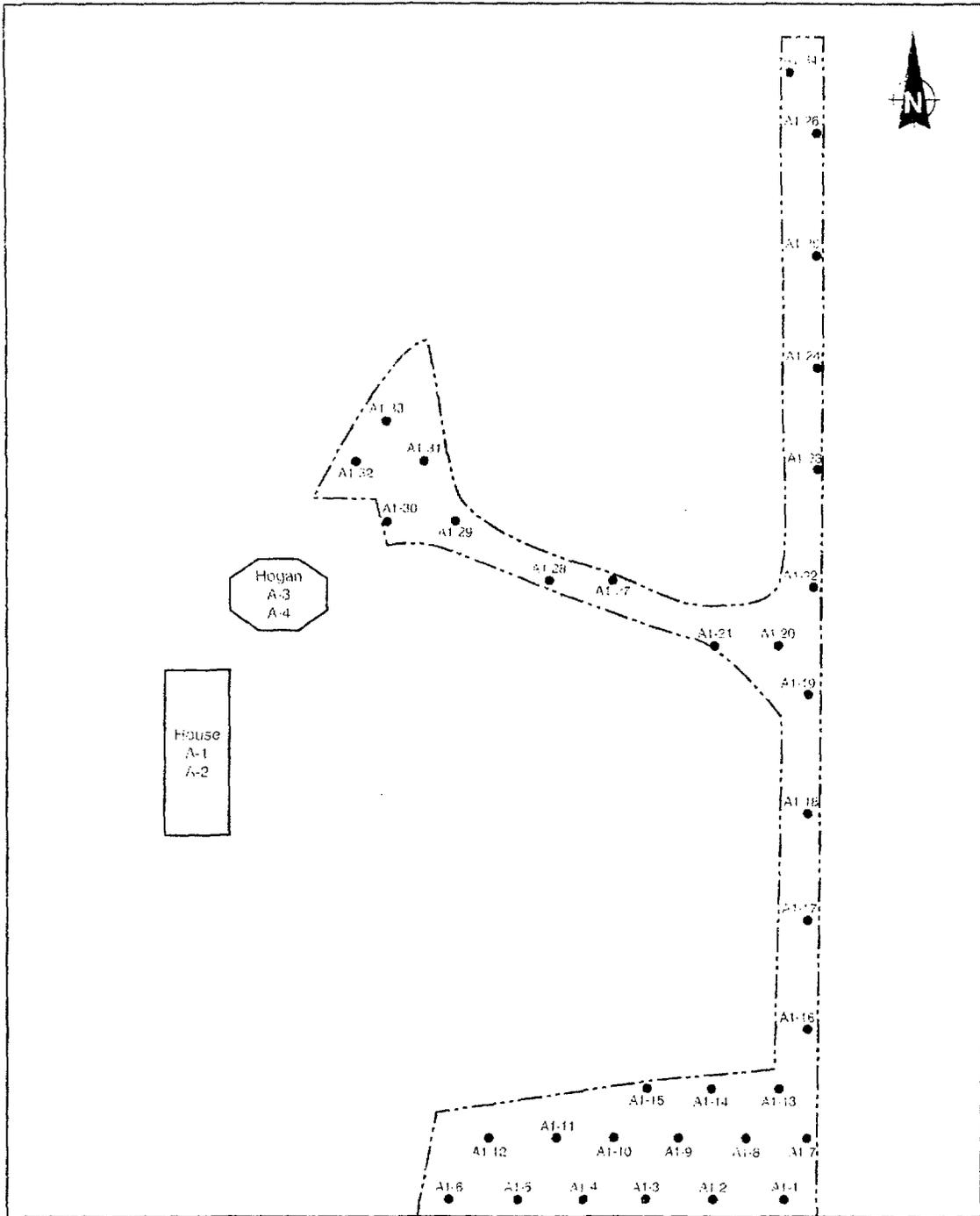
Figure 1: Aerial view of NECR Home Site location with relationship to the city of Church Rock and Interstate 40.



**North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico**

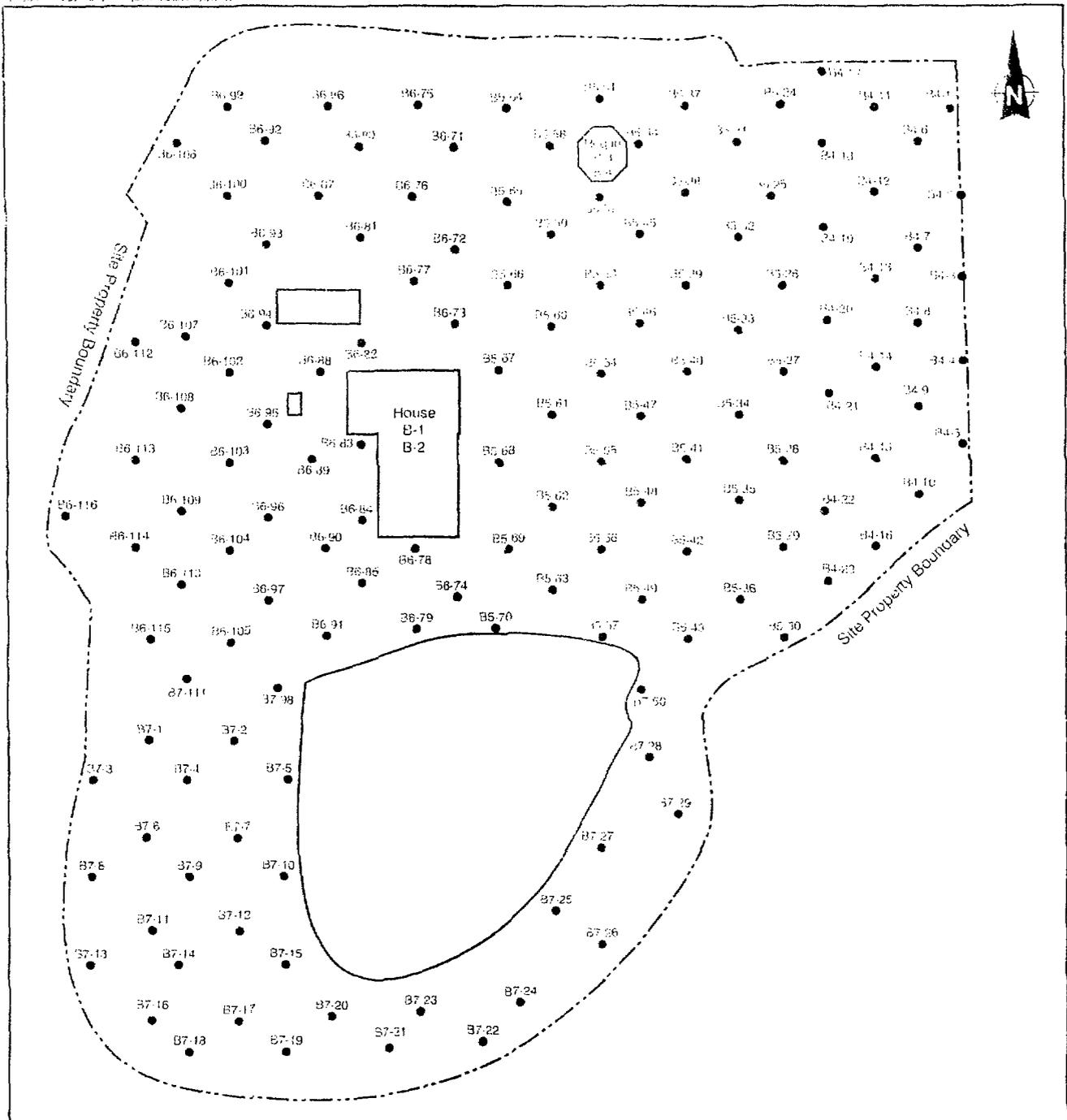
GSA Contact Number: GS-10F-0160J
E&E Project Number: 001096.OX42.01
August 2007

Figure 2: Aerial view of the NECR Home Site Property Locations A, B, C and D.



Approximate Scale
0 20 40 Feet

Figure 3
NECR Home Site Property Location A
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico
GSA Contact Number: GS-10F-0160J
E&E Project Number: 001096.OX42.01
September 2007



SOURCE: Ecology and Environment, Inc. 2007

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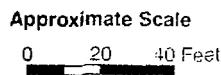
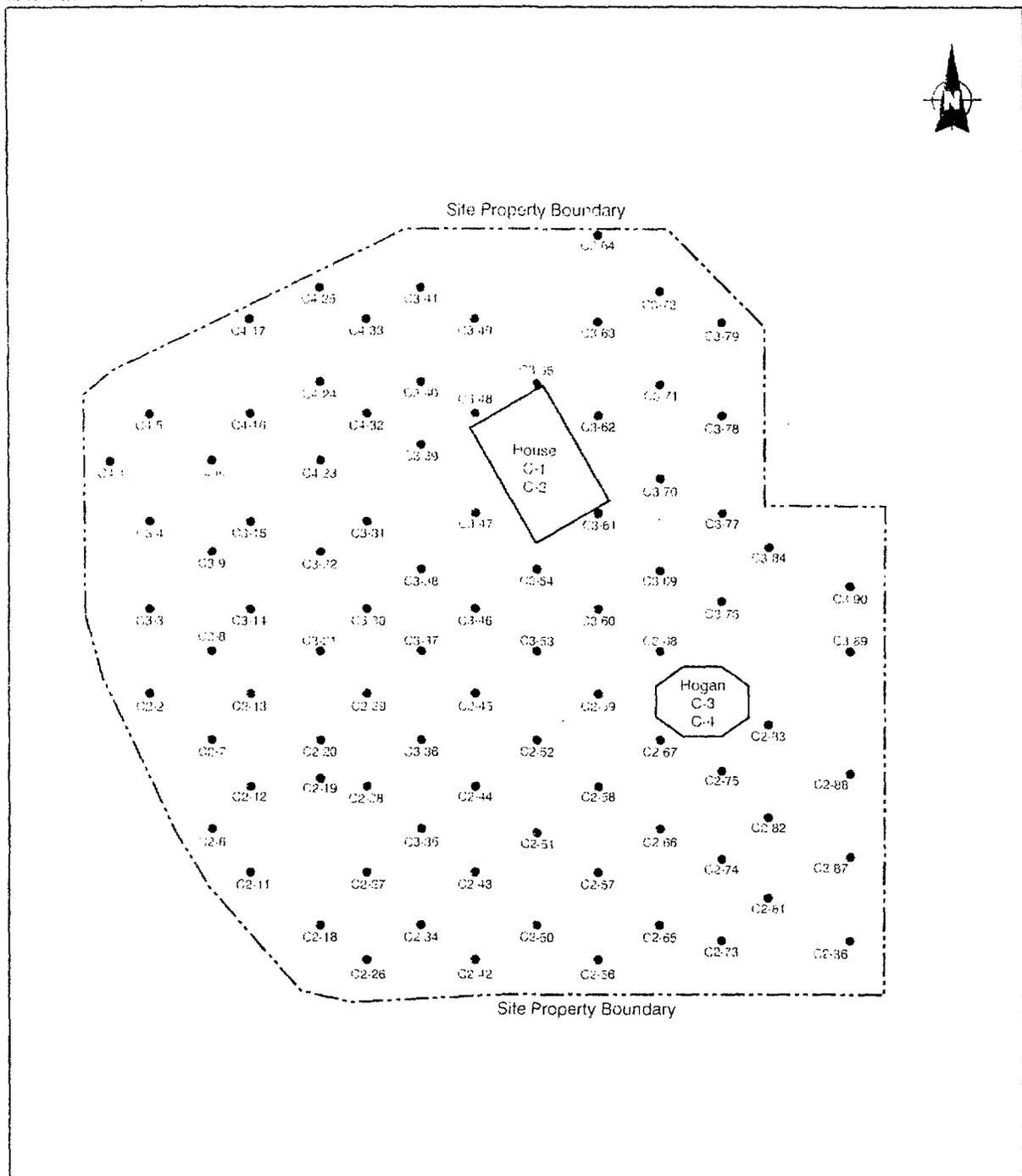


Figure 4
NECR Home Site Property Location B
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico
GSA Contact Number: GS-10F-0160J
E&E Project Number: 001096.OX42.01
September 2007



SOURCE Ecology and Environment, Inc. 2697

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Approximate Scale
0 20 40 Feet

Figure 5
NECR Home Site Property Location C
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico
GSA Contact Number: GS-10F-0160J
E&E Project Number: 001096.OX42.01
September 2007

APPENDIX C

PHOTOGRAPHIC DOCUMENTATION

ECOLOGY AND ENVIRONMENT, INC.
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico

Photographer: Robin Clemens/Coast Guard

Date: May 2007

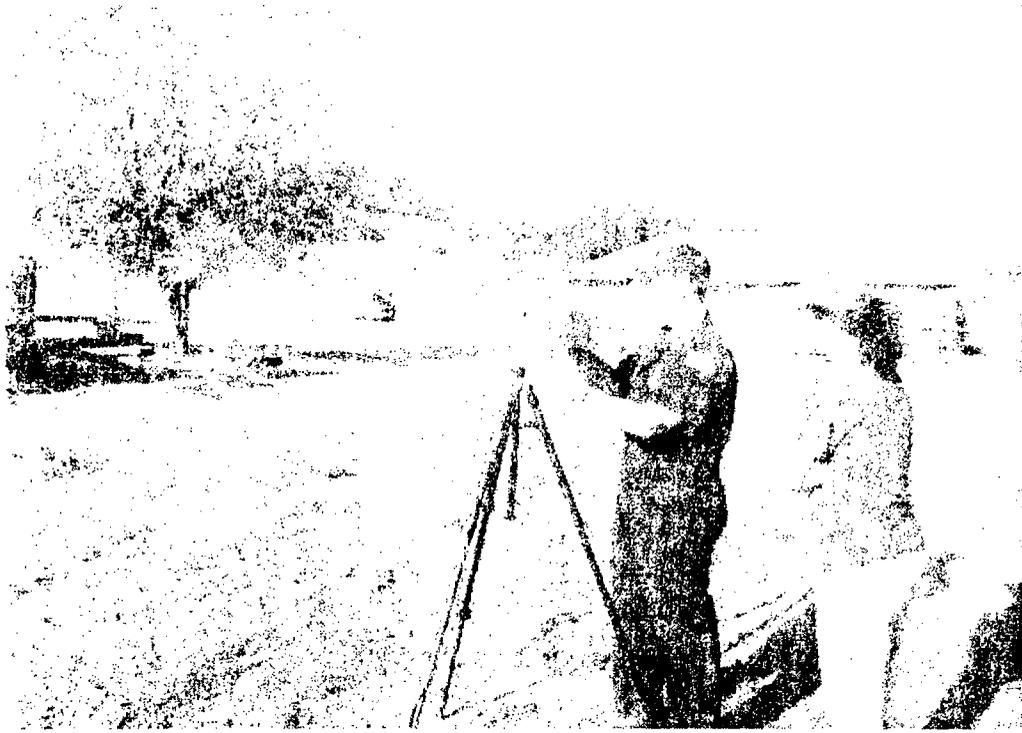


Photo 1: Coast Guard and E&E setting up air sampling at Property C.

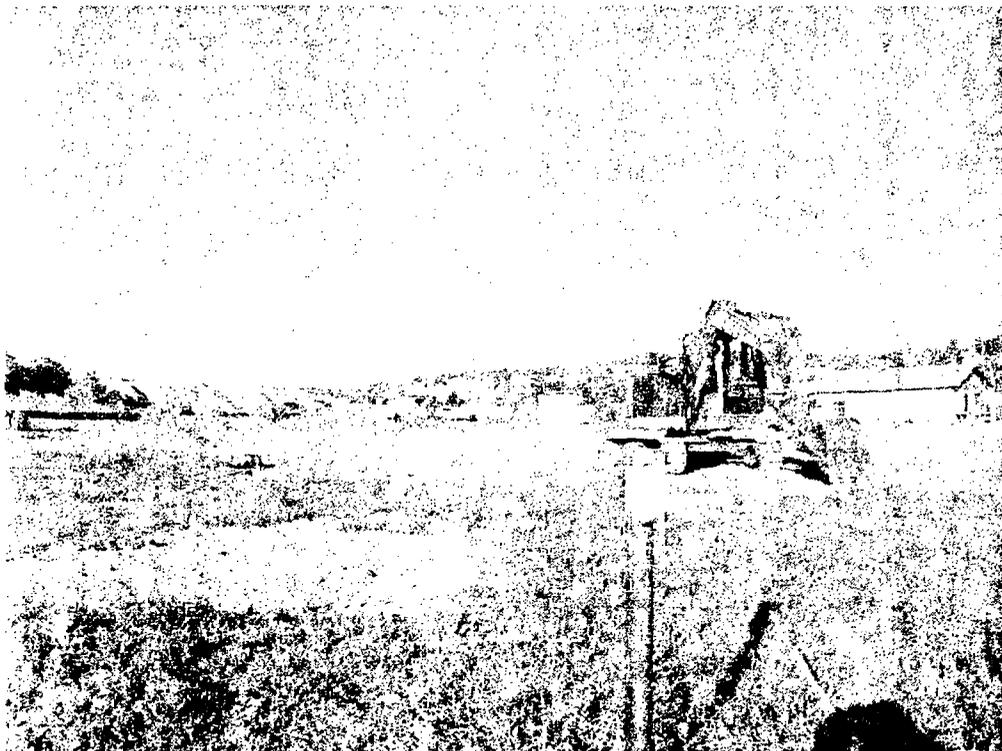


Photo 2: Personal Dust Meter staged downwind during the excavation of Property B.

ECOLOGY AND ENVIRONMENT, INC.
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico

Photographer: Coast Guard

Date: May, 2007

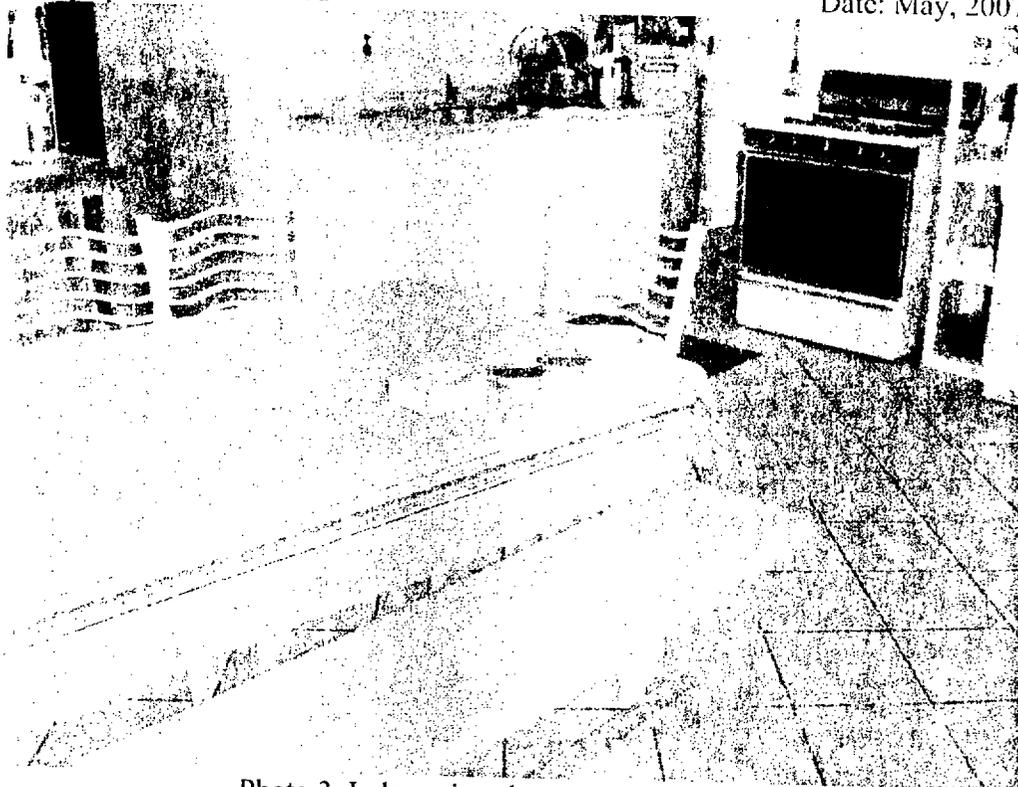


Photo 3: Indoor air radon canister sampling.

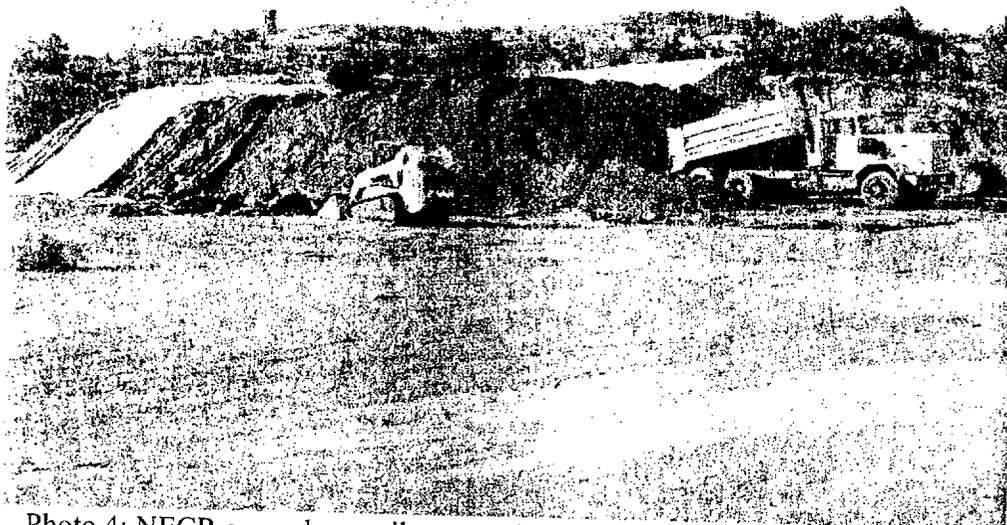


Photo 4: NECR area where soil removed from the homes sites was stockpiled.

ECOLOGY AND ENVIRONMENT, INC.
North East Church Rock Home Site Investigation
Church Rock, McKinley County, New Mexico

Photographer: Robin Clemens

Date: May 2007



Photo 5: Delineated screening lanes ensure 100% screening for gamma radiation.



Photo 6: Coast Guard collecting gamma readings from collected soil samples in Survey Unit 3.