



137907

Department of Energy

Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, Tennessee 37831— 8723

December 27, 1995

Mr. Robert Geller
Missouri Department of Natural Resources
Division of Environmental Quality
Post Office Box 176
Jefferson City, Missouri 65102-0176

Dear Mr. Geller:

ST. LOUIS AIRPORT SITE - SOIL SAMPLE RESULTS FOR SLAPS VP 32

The purpose of this letter is to transmit information regarding soil samples collected from property owned by Mr. Alfred Fleischer on Hazelwood Avenue. All of these soil sample results have already been provided to MDNR, though the most recent results were sent by facsimile. As you requested in our December 18 phone conversation, I am now transmitting this data via a more formal memorandum and am sending data validation check sheets for the most recent results. Enclosed for your information are:

1. Results from historic discrete sampling (1986-1992), extracted from *Radio logical Characterization Report for FUSRAP Properties in the St. Louis, Missouri, Area, August 1990 (DOE/OR/20722-203)* and *Remedial Investigation Report for the St. Louis Site, January 1994 (DOE/OR/21949-280)*;
2. Results from the recent sampling activities (1995), denoted by * in the data tables; and
3. Data validation check sheets for the most recent composite samples; and
4. The original work instruction providing the sampling protocol used to obtain composite samples.

Please let me know if there is anything else I can do to assist you review of this information.

Sincerely,


David G. Adler, Site Manager
Former Sites Restoration Division

Enclosures

cc w/enclosures:
Al Fleischner, Property Owner
Sally Price, St. Louis Task Force
Dan Wall, EPA

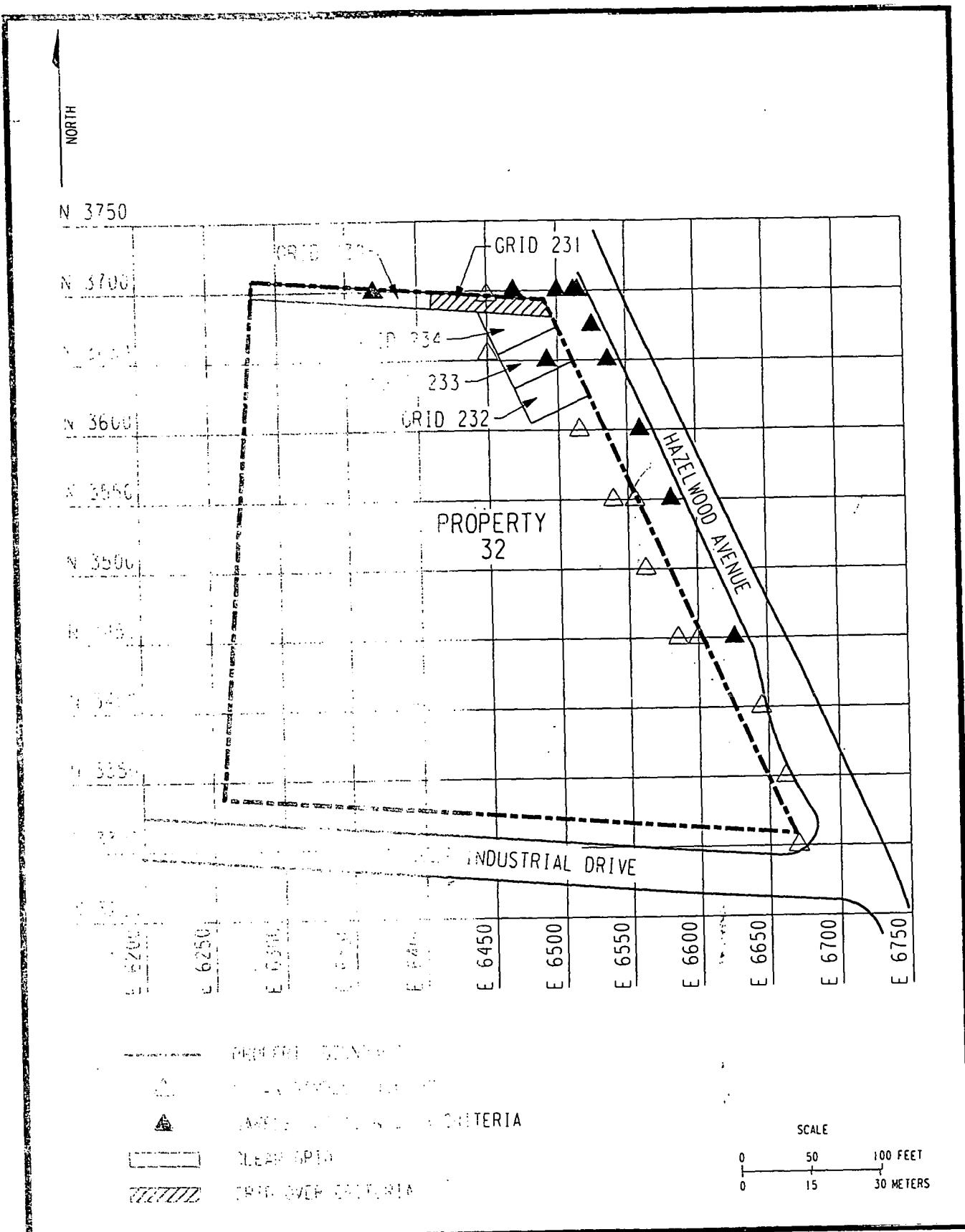
SLAPS Vicinity Property 32 Characterization Sample Data

Sample	Sample Type	Sample Depth		U-238	R-226	Th-230	Th-232
			ft	pCi/g	pCi/g	pCi/g	pCi/g
Background				1.1	0.9	1.3	1
Guideline **		0	to	0.5	50	5	5
Guideline **		0.5	to	depth	50	15	15
E6450 N3655	Discrete	0	to	0.5	-a-	-a-	1.4
E6450 N3697	Discrete	0	to	0.5	-a-	-a-	4.0
E6492 N3650	Discrete	0	to	1	-a-	-a-	11.0
E6492 N3650	Discrete	1	to	2	-a-	-a-	1.2
E6500 N3700	Discrete	0	to	0.5	-a-	-a-	21.0
E6515 N3600	Discrete	0	to	1	-a-	-a-	1.5
E6525 N3675	Discrete	0	to	0.5	-a-	-a-	540.0
E6525 N3675	Discrete	2	to	3	-a-	-a-	2.0
E6536 N3650	Discrete	0	to	1	-a-	-a-	22.0
E6536 N3650	Discrete	2	to	3	-a-	-a-	1.0
E6539 N3550	Discrete	0	to	1	-a-	-a-	3.2
E6555 N3550 *	Discrete	0	to	0.5	1.7	0.8	1.5
E6559 N3600	Discrete	0	to	1	-a-	-a-	15.0
E6559 N3600	Discrete	1	to	2	-a-	-a-	5.5
E6562 N3500	Discrete	0	to	1	-a-	-a-	3.2
E6581 N3550	Discrete	0	to	1	-a-	-a-	85.0
E6581 N3550	Discrete	2	to	3	-a-	-a-	7.1
E6585 N3450	Discrete	0	to	1	-a-	-a-	<0.3
E6600 N3450 *	Discrete	0	to	0.5	1.5	0.9	1.9
E6626 N3450	Discrete	0	to	1	-a-	-a-	41.0
E6626 N3450	Discrete	2	to	3	-a-	-a-	0.9
E6645 N3400	Discrete	0	to	1	-a-	-a-	4.0
E6662 N3350	Discrete	0	to	1	-a-	-a-	3.6
E6670 N3300	Discrete	0	to	1	-a-	-a-	1.5
E6369 N3700	Discrete	0	to	1	-a-	-a-	6.9
E6369 N3700	Discrete	1	to	2	-a-	-a-	1.2
E6469 N3700	Discrete	0	to	1	-a-	-a-	12.0
E6469 N3700	Discrete	1	to	2	-a-	-a-	2.7
E6512 N3700	Discrete	0	to	1	-a-	-a-	71.3
E6512 N3700	Discrete	2	to	3	-a-	-a-	210.0
E6515 N3700	Discrete	0	to	0.5	-a-	-a-	42.0
E6515 N3700	Discrete	3	to	4	-a-	-a-	3.3
E6515 N3700	Discrete	5	to	6	-a-	-a-	1.2
Grid 230 *	Composite	0	to	0.5	1.6	0.9	2.3
Grid 231 *	Composite	0	to	0.5	1.3	1.0	11.9
Grid 232 *	Composite	0	to	0.5	1.2	1.1	1.5
Grid 233 *	Composite	0	to	0.5	1.3	1.4	2.8
Grid 234 *	Composite	0	to	0.5	1.3	1.2	2.1
-a- Analysis not requested							

* 1995 sampling

** The applicable residual contamination guidelines for Ra-226, Th-230, and Th-232 are 5 pCi/g when averaged over the first 15 cm (0.5 ft) of soil below the surface and 15 pCi/g when averaged over any 15-cm-thick (0.5-ft-thick) soil layer below the surface layer. These guidelines take into account ingrowth of Ra-226 from Th-230 and of Ra-228 from Th-232, and assume secular equilibrium. If either Th-230 and Ra-226 or Th-232 and Ra-228 are both present, and not in secular equilibrium, the guidelines apply to the higher concentration. If other mixtures of radionuclides occur, the sum of the ratios of the soil concentration of each radionuclide to the allowable limit for that radionuclide may not exceed 1. The guideline for U-238 is 50 pCi/g when averaged over any 15-cm-thick (0.5-ft-thick) soil layer.

137907



1347259.DCN

Figure 1
Soil Sampling Locations For Radiological Characterization
Of Haul Roads' Vicinity Property 32

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for the St. Louis Site, Missouri



U.S. Department of Energy

Property
of

ST LOUIS FUSRAP LIBRARY