

Paducah-OREIS Data Report

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12/18/2007

145-101

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145101SA010

Collected: 1/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7400	mg/kg		17.9	SW846-6010B
Antimony	N	18.1	mg/kg		9.64	SW846-6010B
Arsenic		3.71	mg/kg		0.897	SW846-6020
Barium	X	94.4	mg/kg		2.24	SW846-6010B
Beryllium	U	0.449	mg/kg		0.449	SW846-6010B
Cadmium	UX	1.79	mg/kg		1.79	SW846-6010B
Calcium	X	1210	mg/kg		89.7	SW846-6010B
Chromium		20.5	mg/kg		2.24	SW846-6010B
Cobalt	B	4.86	mg/kg		2.24	SW846-6010B
Copper		13.3	mg/kg		2.24	SW846-6020
Iron	X	11700	mg/kg		17.9	SW846-6010B
Lead		9.34	mg/kg		0.897	SW846-6020
Magnesium	BX	1430	mg/kg		4.49	SW846-6010B
Manganese	NX	184	mg/kg		2.24	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel		11	mg/kg		4.49	SW846-6010B
Selenium	U	0.897	mg/kg		0.897	SW846-6020
Silver	BUX	2.24	mg/kg		2.24	SW846-6010B
Sodium	JX	132	mg/kg		89.7	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium	U	0.897	mg/kg		0.897	SW846-6020
Vanadium	X	13.8	mg/kg		2.24	SW846-6010B
Zinc	X	33	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0058	pCi/g	0.0095	0.0366	RL-7128
Alpha activity		3.24	pCi/g	0.579	0.441	RL-7111
Americium-241	U	-0.0018	pCi/g	0.0039	0.0417	RL-7128
Beta activity		2.29	pCi/g	0.272	0.482	RL-7111
Cesium-137	U	-0.0027	pCi/g	0.0054	0.0545	RL-7124
Cobalt-60	U	-0.0022	pCi/g	0.0044	0.0538	RL-7124
Neptunium-237	U	0.00484	pCi/g	0.0097	0.0677	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0199	RL-7128
Plutonium-239/240	U	-0.0079	pCi/g	0.0018	0.0198	RL-7128
Technetium-99	U	-0.409	pCi/g	1.07	1.7	RL-7100
Thorium-228		0.248	pCi/g	0.0517	0.118	RL-7128
Thorium-230		0.237	pCi/g	0.0528	0.131	RL-7128
Thorium-232		0.278	pCi/g	0.0511	0.0654	RL-7128
Thorium-234	U	1.37	pCi/g	2.73	1.39	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	-0.0022	pCi/g	0.0028	0.283	RL-7128
Uranium-234	U	0.00183	pCi/g	0.0221	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00174	pCi/g	0.0185	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	JU	5.01	ug/kg		5.01	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	JU	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145101SA015

Collected: 1/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7380	mg/kg		19.5	SW846-6010B
Antimony	NU	9.57	mg/kg		9.57	SW846-6010B
Arsenic		1.19	mg/kg		0.975	SW846-6020
Barium	X	47.8	mg/kg		2.44	SW846-6010B
Beryllium	U	0.488	mg/kg		0.488	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium	X	1240	mg/kg		97.5	SW846-6010B
Chromium		12	mg/kg		2.44	SW846-6010B
Cobalt	B	3.67	mg/kg		2.44	SW846-6010B
Copper		7.47	mg/kg		2.44	SW846-6020
Iron	X	5790	mg/kg		19.5	SW846-6010B
Lead		8.44	mg/kg		0.975	SW846-6020
Magnesium	BX	927	mg/kg		4.88	SW846-6010B
Manganese	NX	82.1	mg/kg		2.44	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		7.48	mg/kg		4.88	SW846-6010B
Selenium	U	0.975	mg/kg		0.975	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	BJX	148	mg/kg		97.5	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.975	mg/kg		0.975	SW846-6020
Vanadium	X	10.4	mg/kg		2.44	SW846-6010B
Zinc	UX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0092	pCi/g	0.0084	0.0368	RL-7128
Alpha activity		3.42	pCi/g	0.566	0.388	RL-7111
Americium-241	U	-0.002	pCi/g	0.0036	0.0423	RL-7128
Beta activity		1.9	pCi/g	0.238	0.461	RL-7111
Cesium-137	U	-0.0193	pCi/g	0.0386	0.0429	RL-7124
Cobalt-60	U	0.00292	pCi/g	0.0058	0.0493	RL-7124
Neptunium-237	U	-0.0005	pCi/g	0.0010	0.0671	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0.0022	0.0195	RL-7128
Plutonium-239/240	U	-0.0022	pCi/g	0.0055	0.0195	RL-7128
Technetium-99	U	0.568	pCi/g	1.11	1.7	RL-7100
Thorium-228		0.28	pCi/g	0.0487	0.116	RL-7128
Thorium-230		0.192	pCi/g	0.0438	0.129	RL-7128
Thorium-232		0.296	pCi/g	0.0473	0.0614	RL-7128
Thorium-234	U	0.227	pCi/g	0.454	1.37	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	-0.0306	pCi/g	0.0589	0.283	RL-7128
Uranium-234	U	-0.0008	pCi/g	0.0224	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0206	pCi/g	0.0157	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	JU	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145101SA030

Collected: 1/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7500	mg/kg		19.7	SW846-6010B
Antimony	NU	9.83	mg/kg		9.83	SW846-6010B
Arsenic	U	0.987	mg/kg		0.987	SW846-6020
Barium	X	23.3	mg/kg		2.47	SW846-6010B
Beryllium	U	0.494	mg/kg		0.494	SW846-6010B
Cadmium	UX	1.97	mg/kg		1.97	SW846-6010B
Calcium	X	1040	mg/kg		98.7	SW846-6010B
Chromium		27.9	mg/kg		2.47	SW846-6010B
Cobalt	BU	2.47	mg/kg		2.47	SW846-6010B
Copper		5.44	mg/kg		2.47	SW846-6020
Iron	X	8960	mg/kg		19.7	SW846-6010B
Lead		9.94	mg/kg		0.987	SW846-6020
Magnesium	BX	418	mg/kg		4.94	SW846-6010B
Manganese	NX	32.9	mg/kg		2.47	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	U	4.94	mg/kg		4.94	SW846-6010B
Selenium	U	0.987	mg/kg		0.987	SW846-6020
Silver	BUX	2.47	mg/kg		2.47	SW846-6010B
Sodium	BJX	145	mg/kg		98.7	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium	U	0.987	mg/kg		0.987	SW846-6020
Vanadium	X	14.2	mg/kg		2.47	SW846-6010B
Zinc	UX	19.7	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	-0.0092	pCi/g	0.0083	0.0365	RL-7128
Alpha activity		3.96	pCi/g	0.597	0.37	RL-7111
Americium-241	U	-0.0051	pCi/g	0.0027	0.0421	RL-7128
Beta activity		2.48	pCi/g	0.281	0.451	RL-7111
Cesium-137	U	0.00089	pCi/g	0.0018	0.0524	RL-7124
Cobalt-60	U	0.00502	pCi/g	0.01	0.0401	RL-7124
Neptunium-237	U	-0.0025	pCi/g	0.0036	0.0673	RL-7128
Plutonium-238	U	-0.0013	pCi/g	0.0033	0.0193	RL-7128
Plutonium-239/240	U	-0.0092	pCi/g	0.0043	0.0208	RL-7128
Technetium-99	U	-0.306	pCi/g	1.08	1.7	RL-7100
Thorium-228		0.239	pCi/g	0.0505	0.118	RL-7128
Thorium-230	U	0.0804	pCi/g	0.0369	0.13	RL-7128
Thorium-232		0.254	pCi/g	0.0491	0.0646	RL-7128
Thorium-234	U	0.647	pCi/g	1.29	1.37	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	-0.0156	pCi/g	0.0299	0.282	RL-7128
Uranium-234	U	0.00251	pCi/g	0.0233	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0089	pCi/g	0.0178	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	JU	4.97	ug/kg		4.97	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	U	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg		9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	JU	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145101SA045

Collected: 1/25/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7170	mg/kg		19.8	SW846-6010B
Antimony	N	14.7	mg/kg		9.52	SW846-6010B
Arsenic		6.98	mg/kg		0.99	SW846-6020
Barium	X	38.2	mg/kg		2.47	SW846-6010B
Beryllium	U	0.495	mg/kg		0.495	SW846-6010B
Cadmium	X	2.47	mg/kg		1.98	SW846-6010B
Calcium	X	968	mg/kg		99	SW846-6010B
Chromium		9.15	mg/kg		2.47	SW846-6010B
Cobalt	B	4.16	mg/kg		2.47	SW846-6010B
Copper		9.38	mg/kg		2.47	SW846-6020
Iron	X	23000	mg/kg		19.8	SW846-6010B
Lead		8.51	mg/kg		0.99	SW846-6020
Magnesium	BX	658	mg/kg		4.95	SW846-6010B
Manganese	NX	60.1	mg/kg		2.47	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel		8.69	mg/kg		4.95	SW846-6010B
Selenium	U	0.99	mg/kg		0.99	SW846-6020
Silver	BUX	2.47	mg/kg		2.47	SW846-6010B
Sodium	BJX	123	mg/kg		99	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	U	0.99	mg/kg		0.99	SW846-6020
Vanadium	X	15.7	mg/kg		2.47	SW846-6010B
Zinc	X	29.6	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0036	pCi/g	0.0095	0.0363	RL-7128
Alpha activity		5.87	pCi/g	0.946	0.643	RL-7111
Americium-241	U	-0.0019	pCi/g	0.0038	0.0432	RL-7128
Beta activity		3.39	pCi/g	0.364	0.535	RL-7111
Cesium-137	U	-0.0055	pCi/g	0.0109	0.0573	RL-7124
Cobalt-60	U	-0.0073	pCi/g	0.0146	0.0486	RL-7124
Neptunium-237	U	-0.0051	pCi/g	0.0075	0.0664	RL-7128
Plutonium-238	U	0.0004	pCi/g	0.0057	0.0194	RL-7128
Plutonium-239/240	U	-0.0003	pCi/g	0.0080	0.0191	RL-7128
Technetium-99	U	0.594	pCi/g	1.1	1.7	RL-7100
Thorium-228		0.394	pCi/g	0.0615	0.118	RL-7128
Thorium-230		0.284	pCi/g	0.0549	0.13	RL-7128
Thorium-232		0.501	pCi/g	0.0662	0.0626	RL-7128
Thorium-234	U	3.8	pCi/g	7.59	1.56	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.279	pCi/g	0.27	0.281	RL-7128
Uranium-234		0.17	pCi/g	0.0361	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.113	pCi/g	0.0299	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	JU	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145101SA060

Collected: 1/25/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7480	mg/kg		19.7	SW846-6010B
Antimony	N	13.2	mg/kg		9.62	SW846-6010B
Arsenic	U	0.983	mg/kg		0.983	SW846-6020
Barium	X	50.9	mg/kg		2.46	SW846-6010B
Beryllium	U	0.492	mg/kg		0.492	SW846-6010B
Cadmium	UX	1.97	mg/kg		1.97	SW846-6010B
Calcium	X	1070	mg/kg		98.3	SW846-6010B
Chromium		11.9	mg/kg		2.46	SW846-6010B
Cobalt	B	9.16	mg/kg		2.46	SW846-6010B
Copper		12.3	mg/kg		2.46	SW846-6020
Iron	X	16000	mg/kg		19.7	SW846-6010B
Lead		9.05	mg/kg		0.983	SW846-6020
Magnesium	BX	564	mg/kg		4.92	SW846-6010B
Manganese	NX	59	mg/kg		2.46	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.46	mg/kg		2.46	SW846-6010B
Nickel		8.24	mg/kg		4.92	SW846-6010B
Selenium	U	0.983	mg/kg		0.983	SW846-6020
Silver	BUX	2.46	mg/kg		2.46	SW846-6010B
Sodium	BJX	99.9	mg/kg		98.3	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium		1.16	mg/kg		0.983	SW846-6020
Vanadium	X	13.3	mg/kg		2.46	SW846-6010B
Zinc	X	41.6	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	-0.0053	pCi/g	0.01	0.0375	RL-7128
Alpha activity		5.13	pCi/g	0.708	0.397	RL-7111
Americium-241	U	-0.0022	pCi/g	0.0032	0.0418	RL-7128
Beta activity		2.9	pCi/g	0.314	0.465	RL-7111
Cesium-137	U	-0.0133	pCi/g	0.0265	0.0581	RL-7124
Cobalt-60	U	0.0304	pCi/g	0.0608	0.0589	RL-7124
Neptunium-237	U	-0.0014	pCi/g	0.0028	0.0672	RL-7128
Plutonium-238	U	-0.0013	pCi/g	0.0032	0.0192	RL-7128
Plutonium-239/240	U	-0.0079	pCi/g	0.0018	0.0195	RL-7128
Technetium-99	U	0.351	pCi/g	1.1	1.7	RL-7100
Thorium-228		0.324	pCi/g	0.0557	0.117	RL-7128
Thorium-230		0.211	pCi/g	0.0483	0.13	RL-7128
Thorium-232		0.356	pCi/g	0.0556	0.0631	RL-7128
Thorium-234		2.4	pCi/g	1.05	1.47	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.217	pCi/g	0.268	0.284	RL-7128
Uranium-234	U	0.0972	pCi/g	0.0339	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.125	pCi/g	0.0337	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	JU	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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12/18/2007

145-102

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SA010

Collected: 1/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		10900	mg/kg		19.5	SW846-6010B
Antimony	X	11.5	mg/kg		9.14	SW846-6010B
Arsenic		7.18	mg/kg		0.974	SW846-6020
Barium	*N	103	mg/kg		2.44	SW846-6010B
Beryllium	U	0.487	mg/kg		0.487	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		420	mg/kg		97.4	SW846-6010B
Chromium		16.5	mg/kg		2.44	SW846-6010B
Cobalt	UX	2.44	mg/kg		2.44	SW846-6010B
Copper		16	mg/kg		2.44	SW846-6020
Iron		17200	mg/kg		19.5	SW846-6010B
Lead		9.17	mg/kg		0.974	SW846-6020
Magnesium		1640	mg/kg		4.87	SW846-6010B
Manganese	*N	216	mg/kg		2.44	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		10.3	mg/kg		4.87	SW846-6010B
Selenium	U	0.974	mg/kg		0.974	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	X	122	mg/kg		97.4	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	B	1.15	mg/kg		0.974	SW846-6020
Vanadium	NUX	2.44	mg/kg		2.44	SW846-6010B
Zinc	X	22	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-3E-06	pCi/g	0.0111	0.0371	RL-7128
Alpha activity		5.41	pCi/g	0.928	0.687	RL-7111
Americium-241	U	-0.0038	pCi/g	0	0.0418	RL-7128
Beta activity		3.65	pCi/g	0.384	0.546	RL-7111
Cesium-137	U	0.0332	pCi/g	0.0664	0.0766	RL-7124
Cobalt-60	U	0.0402	pCi/g	0.0804	0.0834	RL-7124
Neptunium-237	U	-0.0039	pCi/g	0.0078	0.0673	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0192	RL-7128
Plutonium-239/240	U	-0.0082	pCi/g	0.0024	0.0199	RL-7128
Technetium-99	U	-0.0255	pCi/g	1.35	1.7	RL-7100
Thorium-228		0.388	pCi/g	0.0656	0.118	RL-7128
Thorium-230		0.347	pCi/g	0.0647	0.131	RL-7128
Thorium-232		0.359	pCi/g	0.0608	0.0645	RL-7128
Thorium-234		1.9	pCi/g	0.842	0.819	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.3	pCi/g	0.254	0.283	RL-7128
Uranium-234		0.177	pCi/g	0.0403	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.123	pCi/g	0.0338	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	J	6.69	ug/kg		5	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SA015

Collected: 1/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6470	mg/kg		19.5	SW846-6010B
Antimony	UX	9.42	mg/kg		9.42	SW846-6010B
Arsenic		2.87	mg/kg		0.973	SW846-6020
Barium	*N	97.8	mg/kg		2.43	SW846-6010B
Beryllium	U	0.486	mg/kg		0.486	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		1050	mg/kg		97.3	SW846-6010B
Chromium		12.1	mg/kg		2.43	SW846-6010B
Cobalt	UX	2.43	mg/kg		2.43	SW846-6010B
Copper		7.19	mg/kg		2.43	SW846-6020
Iron		10200	mg/kg		19.5	SW846-6010B
Lead		8.54	mg/kg		0.973	SW846-6020
Magnesium		1200	mg/kg		4.86	SW846-6010B
Manganese	*N	284	mg/kg		2.43	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel		11.2	mg/kg		4.86	SW846-6010B
Selenium	U	0.973	mg/kg		0.973	SW846-6020
Silver	BUX	2.43	mg/kg		2.43	SW846-6010B
Sodium	X	121	mg/kg		97.3	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	BU	0.973	mg/kg		0.973	SW846-6020
Vanadium	NUX	2.43	mg/kg		2.43	SW846-6010B
Zinc	UX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0043	pCi/g	0.0077	0.0358	RL-7128
Alpha activity		6.02	pCi/g	0.948	0.627	RL-7111
Americium-241	U	-0.0007	pCi/g	0.0043	0.0417	RL-7128
Beta activity		3.38	pCi/g	0.362	0.531	RL-7111
Cesium-137	U	-0.0086	pCi/g	0.0172	0.0568	RL-7124
Cobalt-60	U	-0.0091	pCi/g	0.0182	0.048	RL-7124
Neptunium-237	U	0.00298	pCi/g	0.006	0.0673	RL-7128
Plutonium-238	U	0.0033	pCi/g	0.0062	0.0194	RL-7128
Plutonium-239/240	U	-0.0082	pCi/g	0.0024	0.0192	RL-7128
Technetium-99	U	0.14	pCi/g	1.11	1.7	RL-7100
Thorium-228		0.398	pCi/g	0.0597	0.117	RL-7128
Thorium-230		0.297	pCi/g	0.0548	0.13	RL-7128
Thorium-232		0.389	pCi/g	0.0568	0.0625	RL-7128
Thorium-234	U	0.8	pCi/g	1.6	0.935	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.0348	pCi/g	0.031	0.28	RL-7128
Uranium-234	U	0.0202	pCi/g	0.0235	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0189	pCi/g	0.0206	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SA030

Collected: 1/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		3510	mg/kg		18.1	SW846-6010B
Antimony	UX	9.48	mg/kg		9.48	SW846-6010B
Arsenic		0.964	mg/kg		0.903	SW846-6020
Barium	*N	21.8	mg/kg		2.26	SW846-6010B
Beryllium	U	0.452	mg/kg		0.452	SW846-6010B
Cadmium	UX	1.81	mg/kg		1.81	SW846-6010B
Calcium		773	mg/kg		90.3	SW846-6010B
Chromium		6.12	mg/kg		2.26	SW846-6010B
Cobalt	UX	2.26	mg/kg		2.26	SW846-6010B
Copper	U	2.26	mg/kg		2.26	SW846-6020
Iron		6160	mg/kg		18.1	SW846-6010B
Lead		4.15	mg/kg		0.903	SW846-6020
Magnesium		377	mg/kg		4.52	SW846-6010B
Manganese	*N	7.23	mg/kg		2.26	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum		2.42	mg/kg		2.26	SW846-6010B
Nickel	U	4.52	mg/kg		4.52	SW846-6010B
Selenium	U	0.903	mg/kg		0.903	SW846-6020
Silver	BUX	2.26	mg/kg		2.26	SW846-6010B
Sodium	X	153	mg/kg		90.3	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	BU	0.903	mg/kg		0.903	SW846-6020
Vanadium	NUX	2.26	mg/kg		2.26	SW846-6010B
Zinc	UX	18.1	mg/kg		18.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0082	pCi/g	0.0063	0.0383	RL-7128
Alpha activity		4.11	pCi/g	0.632	0.405	RL-7111
Americium-241	U	-0.0022	pCi/g	0.0032	0.0419	RL-7128
Beta activity		2.89	pCi/g	0.313	0.469	RL-7111
Cesium-137	U	0.00993	pCi/g	0.0199	0.0501	RL-7124
Cobalt-60	U	-0.0068	pCi/g	0.0136	0.0365	RL-7124
Neptunium-237	U	0.00139	pCi/g	0.0028	0.0665	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0031	0.0199	RL-7128
Plutonium-239/240	U	-0.0063	pCi/g	0.0014	0.02	RL-7128
Technetium-99	U	-0.3	pCi/g	1.08	1.7	RL-7100
Thorium-228		0.224	pCi/g	0.047	0.117	RL-7128
Thorium-230		0.21	pCi/g	0.0479	0.131	RL-7128
Thorium-232		0.285	pCi/g	0.0491	0.0632	RL-7128
Thorium-234		1.06	pCi/g	0.586	0.735	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.251	pCi/g	0.297	0.285	RL-7128
Uranium-234		0.152	pCi/g	0.0375	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.108	pCi/g	0.0324	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	9.99	ug/kg		9.99	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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145-102

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SA045

Collected: 1/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5580	mg/kg		19.1	SW846-6010B
Antimony	UX	9.83	mg/kg		9.83	SW846-6010B
Arsenic		1.57	mg/kg		0.957	SW846-6020
Barium	*N	38.9	mg/kg		2.39	SW846-6010B
Beryllium	U	0.478	mg/kg		0.478	SW846-6010B
Cadmium	UX	1.91	mg/kg		1.91	SW846-6010B
Calcium		674	mg/kg		95.7	SW846-6010B
Chromium		7.82	mg/kg		2.39	SW846-6010B
Cobalt	UX	2.39	mg/kg		2.39	SW846-6010B
Copper		4.48	mg/kg		2.39	SW846-6020
Iron		9470	mg/kg		19.1	SW846-6010B
Lead		6.15	mg/kg		0.957	SW846-6020
Magnesium		571	mg/kg		4.78	SW846-6010B
Manganese	*N	27.7	mg/kg		2.39	SW846-6010B
Mercury	U	0.014	mg/kg		0.014	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel		5.28	mg/kg		4.78	SW846-6010B
Selenium	U	0.957	mg/kg		0.957	SW846-6020
Silver	BUX	2.39	mg/kg		2.39	SW846-6010B
Sodium	UX	95.7	mg/kg		95.7	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	BU	0.957	mg/kg		0.957	SW846-6020
Vanadium	NUX	2.39	mg/kg		2.39	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	0.00551	pCi/g	0.0121	0.0373	RL-7128
Alpha activity		3.49	pCi/g	0.582	0.406	RL-7111
Americium-241	U	-0.0051	pCi/g	0.0025	0.0423	RL-7128
Beta activity		2.32	pCi/g	0.272	0.469	RL-7111
Cesium-137	U	-0.0295	pCi/g	0.059	0.0601	RL-7124
Cobalt-60	U	-0.0084	pCi/g	0.0169	0.0528	RL-7124
Neptunium-237	U	0.00879	pCi/g	0.0101	0.0669	RL-7128
Plutonium-238	U	-0.0038	pCi/g	0.0016	0.019	RL-7128
Plutonium-239/240	U	-0.0093	pCi/g	0.0033	0.0194	RL-7128
Technetium-99	U	-0.364	pCi/g	1.08	1.7	RL-7100
Thorium-228		0.305	pCi/g	0.0522	0.117	RL-7128
Thorium-230		0.207	pCi/g	0.0465	0.131	RL-7128
Thorium-232		0.41	pCi/g	0.0568	0.063	RL-7128
Thorium-234	U	1.01	pCi/g	2.02	1.08	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.385	pCi/g	0.258	0.283	RL-7128
Uranium-234		0.209	pCi/g	0.0435	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.17	pCi/g	0.038	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,1-Trichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,2-Trichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1-Dichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
1,2,3-Trichloropropane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dibromoethane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dichloropropane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dimethylbenzene	U	5.05	ug/kg		5.05	SW846-8260
2-Butanone	U	5.05	ug/kg		5.05	SW846-8260
2-Chloroethyl vinyl ether	U	5.05	ug/kg		5.05	SW846-8260
2-Hexanone	U	5.05	ug/kg		5.05	SW846-8260
4-Methyl-2-pentanone	U	5.05	ug/kg		5.05	SW846-8260
Acetone	JU	5.05	ug/kg		5.05	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.05	ug/kg		5.05	SW846-8260
Benzene	U	5.05	ug/kg		5.05	SW846-8260
Bromodichloromethane	U	5.05	ug/kg		5.05	SW846-8260
Bromoform	U	5.05	ug/kg		5.05	SW846-8260
Bromomethane	U	5.05	ug/kg		5.05	SW846-8260
Carbon disulfide	U	5.05	ug/kg		5.05	SW846-8260
Carbon tetrachloride	U	5.05	ug/kg		5.05	SW846-8260
Chlorobenzene	U	5.05	ug/kg		5.05	SW846-8260
Chloroethane	U	5.05	ug/kg		5.05	SW846-8260
Chloroform	U	5.05	ug/kg		5.05	SW846-8260
Chloromethane	U	5.05	ug/kg		5.05	SW846-8260
cis-1,2-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
cis-1,3-Dichloropropene	U	5.05	ug/kg		5.05	SW846-8260
Dibromochloromethane	U	5.05	ug/kg		5.05	SW846-8260
Dibromomethane	U	5.05	ug/kg		5.05	SW846-8260
Dichlorodifluoromethane	JU	5.05	ug/kg		5.05	SW846-8260
Ethyl methacrylate	U	5.05	ug/kg		5.05	SW846-8260
Ethylbenzene	U	5.05	ug/kg		5.05	SW846-8260
Iodomethane	U	5.05	ug/kg		5.05	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.05	ug/kg		5.05	SW846-8260
Styrene	U	5.05	ug/kg		5.05	SW846-8260
Tetrachloroethene	U	5.05	ug/kg		5.05	SW846-8260
Toluene	U	5.05	ug/kg		5.05	SW846-8260
trans-1,2-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
trans-1,3-Dichloropropene	U	5.05	ug/kg		5.05	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.05	ug/kg		5.05	SW846-8260
Trichloroethene	U	5.05	ug/kg		5.05	SW846-8260
Trichlorofluoromethane	U	5.05	ug/kg		5.05	SW846-8260
Vinyl acetate	U	5.05	ug/kg		5.05	SW846-8260
Vinyl chloride	U	5.05	ug/kg		5.05	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SA060

Collected: 1/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		5830	mg/kg		18.9	SW846-6010B
Antimony	UX	9.57	mg/kg		9.57	SW846-6010B
Arsenic		1.49	mg/kg		0.947	SW846-6020
Barium	*N	77	mg/kg		2.37	SW846-6010B
Beryllium	U	0.474	mg/kg		0.474	SW846-6010B
Cadmium	UX	1.89	mg/kg		1.89	SW846-6010B
Calcium		895	mg/kg		94.7	SW846-6010B
Chromium		13.4	mg/kg		2.37	SW846-6010B
Cobalt	X	3.19	mg/kg		2.37	SW846-6010B
Copper		4.74	mg/kg		2.37	SW846-6020
Iron		8240	mg/kg		18.9	SW846-6010B
Lead		5.64	mg/kg		0.947	SW846-6020
Magnesium		555	mg/kg		4.74	SW846-6010B
Manganese	*N	219	mg/kg		2.37	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel		5.35	mg/kg		4.74	SW846-6010B
Selenium	U	0.947	mg/kg		0.947	SW846-6020
Silver	BUX	2.37	mg/kg		2.37	SW846-6010B
Sodium	X	114	mg/kg		94.7	SW846-6010B
Thallium	U	1.89	mg/kg		1.89	SW846-6020
Uranium	BU	0.947	mg/kg		0.947	SW846-6020
Vanadium	NUX	2.37	mg/kg		2.37	SW846-6010B
Zinc	UX	18.9	mg/kg		18.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.003	pCi/g	0.0105	0.0375	RL-7128
Alpha activity		2.56	pCi/g	0.529	0.476	RL-7111
Americium-241	U	-0.0034	pCi/g	0.0007	0.0417	RL-7128
Beta activity		1.74	pCi/g	0.228	0.493	RL-7111
Cesium-137	U	-0.039	pCi/g	0.0779	0.0571	RL-7124
Cobalt-60	U	0.00101	pCi/g	0.0020	0.0562	RL-7124
Neptunium-237	U	0.00257	pCi/g	0.0051	0.0671	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0198	RL-7128
Plutonium-239/240	U	-0.005	pCi/g	0.0041	0.0194	RL-7128
Technetium-99	U	-0.326	pCi/g	1.09	1.7	RL-7100
Thorium-228		0.196	pCi/g	0.0476	0.118	RL-7128
Thorium-230	U	0.124	pCi/g	0.0438	0.132	RL-7128
Thorium-232		0.182	pCi/g	0.0447	0.0647	RL-7128
Thorium-234	U	0.713	pCi/g	1.43	1.04	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.0934	pCi/g	0.0976	0.285	RL-7128
Uranium-234	U	0.0543	pCi/g	0.0313	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0421	pCi/g	0.0266	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
2-Butanone	U	5.03	ug/kg		5.03	SW846-8260
2-Chloroethyl vinyl ether	U	5.03	ug/kg		5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg		5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg		5.03	SW846-8260
Acetone	JU	5.03	ug/kg		5.03	SW846-8260
Acrolein	JU	4.99	ug/kg		4.99	SW846-8260
Acrylonitrile	U	5.03	ug/kg		5.03	SW846-8260
Benzene	U	5.03	ug/kg		5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg		5.03	SW846-8260
Bromoform	U	5.03	ug/kg		5.03	SW846-8260
Bromomethane	U	5.03	ug/kg		5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg		5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg		5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg		5.03	SW846-8260
Chloroethane	U	5.03	ug/kg		5.03	SW846-8260
Chloroform	U	5.03	ug/kg		5.03	SW846-8260
Chloromethane	U	5.03	ug/kg		5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg		5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg		5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg		5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg		5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
Iodomethane	U	5.03	ug/kg		5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	JU	5.03	ug/kg		5.03	SW846-8260
Styrene	U	5.03	ug/kg		5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg		5.03	SW846-8260
Toluene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg		5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg		5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg		5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg		5.03	SW846-8260

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145-102

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

145102SD030

Collected: 1/16/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5030	mg/kg		19.7	SW846-6010B
Antimony	UX	9.53	mg/kg		9.53	SW846-6010B
Arsenic		2.01	mg/kg		0.984	SW846-6020
Barium	*N	32.8	mg/kg		2.46	SW846-6010B
Beryllium	U	0.492	mg/kg		0.492	SW846-6010B
Cadmium	UX	1.97	mg/kg		1.97	SW846-6010B
Calcium		1090	mg/kg		98.4	SW846-6010B
Chromium		10.1	mg/kg		2.46	SW846-6010B
Cobalt	UX	2.46	mg/kg		2.46	SW846-6010B
Copper		5.65	mg/kg		2.46	SW846-6020
Iron		10800	mg/kg		19.7	SW846-6010B
Lead		12.2	mg/kg		0.984	SW846-6020
Magnesium		632	mg/kg		4.92	SW846-6010B
Manganese	*N	41.9	mg/kg		2.46	SW846-6010B
Mercury		0.4	mg/kg		0.018	SW846-7471
Molybdenum	U	2.46	mg/kg		2.46	SW846-6010B
Nickel		4.92	mg/kg		4.92	SW846-6010B
Selenium	U	0.984	mg/kg		0.984	SW846-6020
Silver	BUX	2.46	mg/kg		2.46	SW846-6010B
Sodium	X	136	mg/kg		98.4	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium	BU	0.984	mg/kg		0.984	SW846-6020
Vanadium	NUX	2.46	mg/kg		2.46	SW846-6010B
Zinc	UX	19.7	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0024	pCi/g	0.0106	0.0363	RL-7128
Alpha activity		3.24	pCi/g	0.532	0.364	RL-7111
Americium-241	U	-0.0005	pCi/g	0.0047	0.0421	RL-7128
Beta activity		2.15	pCi/g	0.255	0.447	RL-7111
Cesium-137	U	0.00188	pCi/g	0.0038	0.0532	RL-7124
Cobalt-60	U	-0.0057	pCi/g	0.0114	0.0515	RL-7124
Neptunium-237	U	0.00040	pCi/g	0.0008	0.0671	RL-7128
Plutonium-238	U	-0.0026	pCi/g	0.0007	0.0191	RL-7128
Plutonium-239/240	U	-0.0070	pCi/g	0	0.019	RL-7128
Technetium-99	U	0.153	pCi/g	1.07	1.7	RL-7100
Thorium-228		0.236	pCi/g	0.0506	0.117	RL-7128
Thorium-230		0.151	pCi/g	0.0443	0.13	RL-7128
Thorium-232		0.299	pCi/g	0.0522	0.0633	RL-7128
Thorium-234		2.43	pCi/g	0.789	0.653	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1

Uranium	U	0.227	pCi/g	0.222	0.283	RL-7128
Uranium-234	U	0.103	pCi/g	0.033	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.127	pCi/g	0.033	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	JU	5.01	ug/kg		5.01	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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**BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB1
145104AG001**

Collected: 1/11/2007

Media Type: AA

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
VOA						
Acetylene	U	5	ppm		5	OA-7211
Carbon Monoxide	U	5	ppm		5	OA-7211
CO2	J	10	%		10	OA-7211
Combustible Gas Content			ppm			OA-7211
Ethane	U	10	ppm		10	OA-7211
Ethylene	U	5	ppm		5	OA-7211
Hydrogen, molecular	U	5	ppm		5	OA-7211
Methane	J	7	%		5	OA-7211

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145103SA010

Collected: 1/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		10600	mg/kg		19.4	SW846-6010B
Antimony	X	13.6	mg/kg		9.77	SW846-6010B
Arsenic		7.16	mg/kg		0.968	SW846-6020
Barium		91.7	mg/kg		2.42	SW846-6010B
Beryllium	U	0.484	mg/kg		0.484	SW846-6010B
Cadmium	UX	1.94	mg/kg		1.94	SW846-6010B
Calcium		20900	mg/kg		96.8	SW846-6010B
Chromium		17.6	mg/kg		2.42	SW846-6010B
Cobalt	UX	2.42	mg/kg		2.42	SW846-6010B
Copper	N	81.8	mg/kg		12.1	SW846-6020
Iron		15500	mg/kg		19.4	SW846-6010B
Lead		27.9	mg/kg		4.84	SW846-6020
Magnesium		2070	mg/kg		4.84	SW846-6010B
Manganese	N	671	mg/kg		2.42	SW846-6010B
Mercury		0.019	mg/kg		0.019	SW846-7471
Molybdenum		3.39	mg/kg		2.42	SW846-6010B
Nickel	N	98.9	mg/kg		4.84	SW846-6010B
Selenium	U	0.968	mg/kg		0.968	SW846-6020
Silver	BUX	2.42	mg/kg		2.42	SW846-6010B
Sodium	X	202	mg/kg		96.8	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium		0.993	mg/kg		0.968	SW846-6020
Vanadium	NUX	2.42	mg/kg		2.42	SW846-6010B
Zinc	NX	81.6	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254		0.33	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl		0.33	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	0.00044	pCi/g	0.0094	0.0358	RL-7128
Alpha activity		7.74	pCi/g	1.64	1.07	RL-7111
Americium-241	U	-0.0019	pCi/g	0.0041	0.0499	RL-7128
Beta activity		3.97	pCi/g	0.576	0.747	RL-7111
Cesium-137	U	0.0059	pCi/g	0.0118	0.0523	RL-7124
Cobalt-60	U	0.0182	pCi/g	0.0363	0.0455	RL-7124
Neptunium-237	U	0.00053	pCi/g	0.0011	0.0663	RL-7128
Plutonium-238	U	-0.0027	pCi/g	0.0005	0.0184	RL-7128
Plutonium-239/240	U	-0.0062	pCi/g	0.0005	0.0192	RL-7128
Technetium-99	U	-0.33	pCi/g	1.11	1.72	RL-7100
Thorium-228		0.376	pCi/g	0.0605	0.116	RL-7128
Thorium-230		0.412	pCi/g	0.0655	0.134	RL-7128
Thorium-232		0.415	pCi/g	0.0607	0.062	RL-7128
Thorium-234	U	1.36	pCi/g	2.72	1.3	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.376	pCi/g	0.262	0.281	RL-7128
Uranium-234		0.184	pCi/g	0.0372	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.192	pCi/g	0.0365	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	J	24.6	ug/kg		5.04	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145103SA015

Collected: 1/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6770	mg/kg		19.5	SW846-6010B
Antimony	X	9.59	mg/kg		9.09	SW846-6010B
Arsenic		6.67	mg/kg		0.975	SW846-6020
Barium		73.7	mg/kg		2.44	SW846-6010B
Beryllium	U	0.488	mg/kg		0.488	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		1020	mg/kg		97.5	SW846-6010B
Chromium		12.2	mg/kg		2.44	SW846-6010B
Cobalt	UX	2.44	mg/kg		2.44	SW846-6010B
Copper	N	23.3	mg/kg		12.2	SW846-6020
Iron		10800	mg/kg		19.5	SW846-6010B
Lead		12.3	mg/kg		0.975	SW846-6020
Magnesium		746	mg/kg		4.88	SW846-6010B
Manganese	N	490	mg/kg		2.44	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel	N	6.54	mg/kg		4.88	SW846-6010B
Selenium	U	0.975	mg/kg		0.975	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	X	111	mg/kg		97.5	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.975	mg/kg		0.975	SW846-6020
Vanadium	NUX	2.44	mg/kg		2.44	SW846-6010B
Zinc	NUX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0013	pCi/g	0.0087	0.0357	RL-7128
Alpha activity		5.1	pCi/g	1.2	0.886	RL-7111
Americium-241	U	0.00074	pCi/g	0.0055	0.0499	RL-7128
Beta activity		3.23	pCi/g	0.492	0.692	RL-7111
Cesium-137	U	0.00318	pCi/g	0.0064	0.0528	RL-7124
Cobalt-60	U	-0.013	pCi/g	0.026	0.0438	RL-7124
Neptunium-237	U	0.00089	pCi/g	0.0018	0.0663	RL-7128
Plutonium-238	U	0.00219	pCi/g	0.0076	0.0196	RL-7128
Plutonium-239/240	U	-0.0058	pCi/g	0.0012	0.0213	RL-7128
Technetium-99	U	1.42	pCi/g	1.13	1.72	RL-7100
Thorium-228		0.368	pCi/g	0.0587	0.116	RL-7128
Thorium-230		0.387	pCi/g	0.0615	0.134	RL-7128
Thorium-232		0.374	pCi/g	0.057	0.0627	RL-7128
Thorium-234	U	0.789	pCi/g	1.58	1.28	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.291	pCi/g	0.215	0.28	RL-7128
Uranium-234		0.15	pCi/g	0.0346	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.142	pCi/g	0.032	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone		11.3	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	J	69.4	ug/kg		5.04	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145103SA030

Collected: 1/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6150	mg/kg		19.5	SW846-6010B
Antimony	UX	8.76	mg/kg		8.76	SW846-6010B
Arsenic		2.36	mg/kg		0.974	SW846-6020
Barium		82	mg/kg		2.44	SW846-6010B
Beryllium	U	0.487	mg/kg		0.487	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		1020	mg/kg		97.4	SW846-6010B
Chromium		10.4	mg/kg		2.44	SW846-6010B
Cobalt	UX	2.44	mg/kg		2.44	SW846-6010B
Copper	N	6.69	mg/kg		2.44	SW846-6020
Iron		11300	mg/kg		19.5	SW846-6010B
Lead		6.82	mg/kg		0.974	SW846-6020
Magnesium		821	mg/kg		4.87	SW846-6010B
Manganese	N	178	mg/kg		2.44	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel	N	6.34	mg/kg		4.87	SW846-6010B
Selenium	U	0.974	mg/kg		0.974	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	UX	97.4	mg/kg		97.4	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.974	mg/kg		0.974	SW846-6020
Vanadium	NUX	2.44	mg/kg		2.44	SW846-6010B
Zinc	NUX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0018	pCi/g	0.012	0.0373	RL-7128
Alpha activity		4.68	pCi/g	1.05	0.711	RL-7111
Americium-241	U	-0.0019	pCi/g	0.0040	0.05	RL-7128
Beta activity		2.65	pCi/g	0.424	0.649	RL-7111
Cesium-137	U	-0.0268	pCi/g	0.0535	0.0396	RL-7124
Cobalt-60	U	-0.0108	pCi/g	0.0215	0.0291	RL-7124
Neptunium-237	U	-0.0025	pCi/g	0.0051	0.0668	RL-7128
Plutonium-238	U	-0.0011	pCi/g	0.0037	0.0191	RL-7128
Plutonium-239/240	U	-0.0077	pCi/g	0.0025	0.0204	RL-7128
Technetium-99	U	0.75	pCi/g	1.11	1.72	RL-7100
Thorium-228		0.506	pCi/g	0.0619	0.115	RL-7128
Thorium-230		0.273	pCi/g	0.0489	0.132	RL-7128
Thorium-232		0.357	pCi/g	0.051	0.0618	RL-7128
Thorium-234	U	0.484	pCi/g	0.968	1.18	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.234	pCi/g	0.243	0.284	RL-7128
Uranium-234	U	0.123	pCi/g	0.0353	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.113	pCi/g	0.032	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	U	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	J	6.85	ug/kg		4.97	SW846-8260
Acrolein	JU	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	U	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg		9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145103SA045

Collected: 1/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		4170	mg/kg		19.4	SW846-6010B
Antimony	UX	9.2	mg/kg		9.2	SW846-6010B
Arsenic		1.72	mg/kg		0.968	SW846-6020
Barium		36.5	mg/kg		2.42	SW846-6010B
Beryllium	U	0.484	mg/kg		0.484	SW846-6010B
Cadmium	UX	1.94	mg/kg		1.94	SW846-6010B
Calcium		649	mg/kg		96.8	SW846-6010B
Chromium		7.14	mg/kg		2.42	SW846-6010B
Cobalt	UX	2.42	mg/kg		2.42	SW846-6010B
Copper	N	3.05	mg/kg		2.42	SW846-6020
Iron		10000	mg/kg		19.4	SW846-6010B
Lead		5.56	mg/kg		0.968	SW846-6020
Magnesium		337	mg/kg		4.84	SW846-6010B
Manganese	N	16.5	mg/kg		2.42	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	NU	4.84	mg/kg		4.84	SW846-6010B
Selenium	U	0.968	mg/kg		0.968	SW846-6020
Silver	BUX	2.42	mg/kg		2.42	SW846-6010B
Sodium	UX	96.8	mg/kg		96.8	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.968	mg/kg		0.968	SW846-6020
Vanadium	NUX	2.42	mg/kg		2.42	SW846-6010B
Zinc	NUX	19.4	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	0.00016	pCi/g	0.0098	0.0369	RL-7128
Alpha activity		2.26	pCi/g	0.605	0.5	RL-7111
Americium-241	U	-0.0031	pCi/g	0.0033	0.0499	RL-7128
Beta activity		1.45	pCi/g	0.274	0.585	RL-7111
Cesium-137	U	-0.0272	pCi/g	0.0544	0.0373	RL-7124
Cobalt-60	U	-0.0045	pCi/g	0.0089	0.0357	RL-7124
Neptunium-237	U	-0.0003	pCi/g	0.0006	0.0657	RL-7128
Plutonium-238	U	-0.0015	pCi/g	0.0028	0.0184	RL-7128
Plutonium-239/240	U	0.00211	pCi/g	0.007	0.0196	RL-7128
Technetium-99	U	0.459	pCi/g	1.1	1.72	RL-7100
Thorium-228		0.407	pCi/g	0.0576	0.115	RL-7128
Thorium-230		0.195	pCi/g	0.0445	0.133	RL-7128
Thorium-232		0.383	pCi/g	0.0541	0.0604	RL-7128
Thorium-234	U	1.14	pCi/g	2.27	1.14	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.231	pCi/g	0.173	0.282	RL-7128
Uranium-234		0.127	pCi/g	0.0348	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.104	pCi/g	0.0305	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,1-Trichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,2-Trichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1-Dichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
1,2,3-Trichloropropane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dibromoethane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dichloropropane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dimethylbenzene	U	4.95	ug/kg		4.95	SW846-8260
2-Butanone	U	4.95	ug/kg		4.95	SW846-8260
2-Chloroethyl vinyl ether	U	4.95	ug/kg		4.95	SW846-8260
2-Hexanone	U	4.95	ug/kg		4.95	SW846-8260
4-Methyl-2-pentanone	U	4.95	ug/kg		4.95	SW846-8260
Acetone	JU	4.95	ug/kg		4.95	SW846-8260
Acrolein	JU	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.95	ug/kg		4.95	SW846-8260
Benzene	U	4.95	ug/kg		4.95	SW846-8260
Bromodichloromethane	U	4.95	ug/kg		4.95	SW846-8260
Bromoform	U	4.95	ug/kg		4.95	SW846-8260
Bromomethane	U	4.95	ug/kg		4.95	SW846-8260
Carbon disulfide	U	4.95	ug/kg		4.95	SW846-8260
Carbon tetrachloride	U	4.95	ug/kg		4.95	SW846-8260
Chlorobenzene	U	4.95	ug/kg		4.95	SW846-8260
Chloroethane	U	4.95	ug/kg		4.95	SW846-8260
Chloroform	U	4.95	ug/kg		4.95	SW846-8260
Chloromethane	U	4.95	ug/kg		4.95	SW846-8260
cis-1,2-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
cis-1,3-Dichloropropene	U	4.95	ug/kg		4.95	SW846-8260
Dibromochloromethane	U	4.95	ug/kg		4.95	SW846-8260
Dibromomethane	U	4.95	ug/kg		4.95	SW846-8260
Dichlorodifluoromethane	JU	4.95	ug/kg		4.95	SW846-8260
Ethyl methacrylate	U	4.95	ug/kg		4.95	SW846-8260
Ethylbenzene	U	4.95	ug/kg		4.95	SW846-8260
Iodomethane	U	4.95	ug/kg		4.95	SW846-8260
m,p-Xylene	U	9.91	ug/kg		9.91	SW846-8260
Methylene chloride	U	4.95	ug/kg		4.95	SW846-8260
Styrene	U	4.95	ug/kg		4.95	SW846-8260
Tetrachloroethene	U	4.95	ug/kg		4.95	SW846-8260
Toluene	U	4.95	ug/kg		4.95	SW846-8260
trans-1,2-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
trans-1,3-Dichloropropene	U	4.95	ug/kg		4.95	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.95	ug/kg		4.95	SW846-8260
Trichloroethene	U	4.95	ug/kg		4.95	SW846-8260
Trichlorofluoromethane	U	4.95	ug/kg		4.95	SW846-8260
Vinyl acetate	U	4.95	ug/kg		4.95	SW846-8260
Vinyl chloride	U	4.95	ug/kg		4.95	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145103SA060

Collected: 1/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		5620	mg/kg		19.5	SW846-6010B
Antimony	UX	9.42	mg/kg		9.42	SW846-6010B
Arsenic		3.16	mg/kg		0.977	SW846-6020
Barium		183	mg/kg		2.44	SW846-6010B
Beryllium		1.24	mg/kg		0.488	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		1180	mg/kg		97.7	SW846-6010B
Chromium		10.9	mg/kg		2.44	SW846-6010B
Cobalt	X	20.5	mg/kg		2.44	SW846-6010B
Copper	NU	12.2	mg/kg		12.2	SW846-6020
Iron		17100	mg/kg		19.5	SW846-6010B
Lead		14.7	mg/kg		0.977	SW846-6020
Magnesium		921	mg/kg		4.88	SW846-6010B
Manganese	N	733	mg/kg		2.44	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel	N	16.9	mg/kg		4.88	SW846-6010B
Selenium	U	0.977	mg/kg		0.977	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	UX	97.7	mg/kg		97.7	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium		1.41	mg/kg		0.977	SW846-6020
Vanadium	NUX	2.44	mg/kg		2.44	SW846-6010B
Zinc	NUX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.00411	pCi/g	0.0125	0.037	RL-7128
Alpha activity		5.56	pCi/g	1.11	0.666	RL-7111
Americium-241	U	-0.0008	pCi/g	0.0046	0.05	RL-7128
Beta activity		3.12	pCi/g	0.467	0.638	RL-7111
Cesium-137	U	-0.0063	pCi/g	0.0126	0.0516	RL-7124
Cobalt-60	U	-0.0134	pCi/g	0.0267	0.0324	RL-7124
Neptunium-237	U	0.0017	pCi/g	0.0034	0.065	RL-7128
Plutonium-238	U	-0.0027	pCi/g	0.0006	0.0184	RL-7128
Plutonium-239/240	U	-0.0047	pCi/g	0.0034	0.0198	RL-7128
Technetium-99	U	0.685	pCi/g	1.12	1.72	RL-7100
Thorium-228		0.558	pCi/g	0.0655	0.115	RL-7128
Thorium-230		0.353	pCi/g	0.0551	0.132	RL-7128
Thorium-232		0.522	pCi/g	0.062	0.0612	RL-7128
Thorium-234	U	2.93	pCi/g	5.85	1.29	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.551	pCi/g	0.399	0.282	RL-7128
Uranium-234		0.309	pCi/g	0.0466	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.238	pCi/g	0.0407	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.92	ug/kg		9.92	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145104SA010

Collected: 1/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9660	mg/kg		18.6	SW846-6010B
Antimony	UX	9.68	mg/kg		9.68	SW846-6010B
Arsenic		3.33	mg/kg		0.929	SW846-6020
Barium		97.3	mg/kg		2.32	SW846-6010B
Beryllium	U	0.465	mg/kg		0.465	SW846-6010B
Cadmium	UX	1.86	mg/kg		1.86	SW846-6010B
Calcium		4970	mg/kg		92.9	SW846-6010B
Chromium		15.1	mg/kg		2.32	SW846-6010B
Cobalt	UX	2.32	mg/kg		2.32	SW846-6010B
Copper	N	9.88	mg/kg		2.32	SW846-6020
Iron		10500	mg/kg		18.6	SW846-6010B
Lead		7.73	mg/kg		0.929	SW846-6020
Magnesium		1450	mg/kg		4.65	SW846-6010B
Manganese	N	184	mg/kg		2.32	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.32	mg/kg		2.32	SW846-6010B
Nickel	N	9.53	mg/kg		4.65	SW846-6010B
Selenium	U	0.929	mg/kg		0.929	SW846-6020
Silver	BUX	2.32	mg/kg		2.32	SW846-6010B
Sodium	X	154	mg/kg		92.9	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	U	0.929	mg/kg		0.929	SW846-6020
Vanadium	NUX	2.32	mg/kg		2.32	SW846-6010B
Zinc	NUX	18.6	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	0.00312	pCi/g	0.0112	0.0359	RL-7128
Alpha activity		6.8	pCi/g	1.56	1.11	RL-7111
Americium-241	U	-0.0042	pCi/g	0.0012	0.0504	RL-7128
Beta activity		3.63	pCi/g	0.55	0.766	RL-7111
Cesium-137	U	0.00738	pCi/g	0.0148	0.06	RL-7124
Cobalt-60	U	0.0135	pCi/g	0.0269	0.0559	RL-7124
Neptunium-237	U	-0.0038	pCi/g	0.0075	0.0668	RL-7128
Plutonium-238	U	-0.0027	pCi/g	0.0006	0.0197	RL-7128
Plutonium-239/240	U	-0.0007	pCi/g	0.0057	0.0208	RL-7128
Technetium-99	U	0.969	pCi/g	1.13	1.72	RL-7100
Thorium-228		0.382	pCi/g	0.0548	0.115	RL-7128
Thorium-230		0.373	pCi/g	0.0568	0.132	RL-7128
Thorium-232		0.381	pCi/g	0.053	0.0615	RL-7128
Thorium-234	U	1.2	pCi/g	2.39	1.39	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.272	pCi/g	0.193	0.281	RL-7128
Uranium-234		0.128	pCi/g	0.034	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.142	pCi/g	0.0329	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone		28.3	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	J	116	ug/kg		5.01	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145104SA015

Collected: 1/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
PPCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0005	pCi/g	0.0093	0.0363	RL-7128
Alpha activity	U	2.25	pCi/g	1.36	3.88	RL-7111
Americium-241	U	-0.0062	pCi/g	0.0028	0.0511	RL-7128
Beta activity	U	1.2	pCi/g	0.327	3.32	RL-7111
Cesium-137	U	-0.008	pCi/g	0.0159	0.104	RL-7124
Cobalt-60	U	-0.0007	pCi/g	0.0013	0.127	RL-7124
Neptunium-237	U	0.00371	pCi/g	0.0074	0.0661	RL-7128
Plutonium-238	U	0.0043	pCi/g	0.0065	0.0185	RL-7128
Plutonium-239/240	U	-0.0076	pCi/g	0.0023	0.0209	RL-7128
Technetium-99	U	1.3	pCi/g	1.13	1.72	RL-7100
Thorium-228		0.208	pCi/g	0.043	0.115	RL-7128
Thorium-230		0.146	pCi/g	0.0401	0.133	RL-7128
Thorium-232	U	0.061	pCi/g	0.0243	0.0617	RL-7128
Thorium-234	U	0.119	pCi/g	0.238	2.16	RL-7124
Uranium	U	0.163	pCi/g	0.124	0.282	RL-7128
Uranium-234	U	0.0747	pCi/g	0.0305	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0886	pCi/g	0.0291	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	U	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	J	38.6	ug/kg		4.97	SW846-8260
Acrolein	JU	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	U	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260
Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145104SA030

Collected: 1/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7200	mg/kg		19.9	SW846-6010B
Antimony	UX	9.67	mg/kg		9.67	SW846-6010B
Arsenic		3.39	mg/kg		0.997	SW846-6020
Barium		95.3	mg/kg		2.49	SW846-6010B
Beryllium	U	0.499	mg/kg		0.499	SW846-6010B
Cadmium	UX	1.99	mg/kg		1.99	SW846-6010B
Calcium		1180	mg/kg		99.7	SW846-6010B
Chromium		11.6	mg/kg		2.49	SW846-6010B
Cobalt	UX	2.49	mg/kg		2.49	SW846-6010B
Copper	N	6.89	mg/kg		2.49	SW846-6020
Iron		10000	mg/kg		19.9	SW846-6010B
Lead		11.1	mg/kg		0.997	SW846-6020
Magnesium		1070	mg/kg		4.99	SW846-6010B
Manganese	N	222	mg/kg		2.49	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.49	mg/kg		2.49	SW846-6010B
Nickel	N	7.68	mg/kg		4.99	SW846-6010B
Selenium	U	0.997	mg/kg		0.997	SW846-6020
Silver	BUX	2.49	mg/kg		2.49	SW846-6010B
Sodium	X	163	mg/kg		99.7	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium	U	0.997	mg/kg		0.997	SW846-6020
Vanadium	NUX	2.49	mg/kg		2.49	SW846-6010B
Zinc	NUX	19.9	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0114	pCi/g	0.0046	0.0359	RL-7128
Alpha activity		5.81	pCi/g	1.39	0.969	RL-7111
Americium-241	U	-0.0044	pCi/g	0.0007	0.05	RL-7128
Beta activity		3.78	pCi/g	0.531	0.828	RL-7111
Cesium-137	U	-0.0076	pCi/g	0.0153	0.0531	RL-7124
Cobalt-60	U	0.0155	pCi/g	0.0309	0.0576	RL-7124
Neptunium-237	U	0.00408	pCi/g	0.0082	0.0672	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0194	RL-7128
Plutonium-239/240	U	-0.0023	pCi/g	0.0055	0.0201	RL-7128
Technetium-99	U	-0.0833	pCi/g	1.11	1.71	RL-7100
Thorium-228		0.386	pCi/g	0.0702	0.119	RL-7128
Thorium-230		0.322	pCi/g	0.0672	0.133	RL-7128
Thorium-232		0.359	pCi/g	0.0646	0.066	RL-7128
Thorium-234	U	1.25	pCi/g	2.51	0.95	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.0798	pCi/g	0.162	0.281	RL-7128
Uranium-234	U	0.0427	pCi/g	0.0255	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0485	pCi/g	0.0242	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	J	5.43	ug/kg		4.96	SW846-8260
Acrolein	JU	4.95	ug/kg		4.95	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg		9.91	SW846-8260
Methylene chloride	JU	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145104SA045

Collected: 1/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6340	mg/kg		18.2	SW846-6010B
Antimony	UX	9.9	mg/kg		9.9	SW846-6010B
Arsenic		1.92	mg/kg		0.908	SW846-6020
Barium		56.5	mg/kg		2.27	SW846-6010B
Beryllium	U	0.454	mg/kg		0.454	SW846-6010B
Cadmium	UX	1.82	mg/kg		1.82	SW846-6010B
Calcium		962	mg/kg		90.8	SW846-6010B
Chromium		13.6	mg/kg		2.27	SW846-6010B
Cobalt	UX	2.27	mg/kg		2.27	SW846-6010B
Copper	N	3.74	mg/kg		2.27	SW846-6020
Iron		12400	mg/kg		18.2	SW846-6010B
Lead		6.46	mg/kg		0.908	SW846-6020
Magnesium		522	mg/kg		4.54	SW846-6010B
Manganese	N	19.6	mg/kg		2.27	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel	N	4.81	mg/kg		4.54	SW846-6010B
Selenium	U	0.908	mg/kg		0.908	SW846-6020
Silver	BUX	2.27	mg/kg		2.27	SW846-6010B
Sodium	X	122	mg/kg		90.8	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.908	mg/kg		0.908	SW846-6020
Vanadium	NUX	2.27	mg/kg		2.27	SW846-6010B
Zinc	NUX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0008	pCi/g	0.0102	0.0366	RL-7128
Alpha activity		3.8	pCi/g	1.01	0.778	RL-7111
Americium-241	U	0.00062	pCi/g	0.0062	0.0511	RL-7128
Beta activity		2.19	pCi/g	0.362	0.795	RL-7111
Cesium-137	U	-0.0189	pCi/g	0.0378	0.0464	RL-7124
Cobalt-60	U	0.00496	pCi/g	0.0099	0.0498	RL-7124
Neptunium-237	U	0.00401	pCi/g	0.0068	0.068	RL-7128
Plutonium-238	U	-0.0012	pCi/g	0.0036	0.0196	RL-7128
Plutonium-239/240	U	-0.0084	pCi/g	0.0028	0.0198	RL-7128
Technetium-99	U	-0.0897	pCi/g	1.1	1.71	RL-7100
Thorium-228		0.394	pCi/g	0.0633	0.118	RL-7128
Thorium-230		0.168	pCi/g	0.0477	0.131	RL-7128
Thorium-232		0.385	pCi/g	0.0605	0.0637	RL-7128
Thorium-234	U	1.35	pCi/g	2.69	0.904	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.237	pCi/g	0.178	0.283	RL-7128
Uranium-234	U	0.126	pCi/g	0.0352	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.111	pCi/g	0.032	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	JU	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

145104SA060

Collected: 1/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8030	mg/kg		19.9	SW846-6010B
Antimony	X	10.7	mg/kg		9.5	SW846-6010B
Arsenic		2.63	mg/kg		0.994	SW846-6020
Barium		57	mg/kg		2.48	SW846-6010B
Beryllium		0.706	mg/kg		0.497	SW846-6010B
Cadmium	UX	1.99	mg/kg		1.99	SW846-6010B
Calcium		963	mg/kg		99.4	SW846-6010B
Chromium		14.1	mg/kg		2.48	SW846-6010B
Cobalt	X	3.44	mg/kg		2.48	SW846-6010B
Copper	N	8.07	mg/kg		2.48	SW846-6020
Iron		14800	mg/kg		19.9	SW846-6010B
Lead		5.15	mg/kg		0.994	SW846-6020
Magnesium		1000	mg/kg		4.97	SW846-6010B
Manganese	N	80.1	mg/kg		2.48	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel	N	11.5	mg/kg		4.97	SW846-6010B
Selenium	U	0.994	mg/kg		0.994	SW846-6020
Silver	BUX	2.48	mg/kg		2.48	SW846-6010B
Sodium	UX	99.4	mg/kg		99.4	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium		0.999	mg/kg		0.994	SW846-6020
Vanadium	NUX	2.48	mg/kg		2.48	SW846-6010B
Zinc	NUX	19.9	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0042	pCi/g	0.0099	0.0378	RL-7128
Alpha activity		5.5	pCi/g	1.39	1.02	RL-7111
Americium-241	U	-0.0024	pCi/g	0.0048	0.0507	RL-7128
Beta activity		2.99	pCi/g	0.456	0.837	RL-7111
Cesium-137	U	0.0138	pCi/g	0.0276	0.0615	RL-7124
Cobalt-60	U	0.0324	pCi/g	0.0648	0.0552	RL-7124
Neptunium-237	U	0.00137	pCi/g	0.0027	0.0673	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0030	0.0192	RL-7128
Plutonium-239/240	U	-0.0070	pCi/g	0	0.0191	RL-7128
Technetium-99	U	0.128	pCi/g	1.08	1.71	RL-7100
Thorium-228		0.457	pCi/g	0.0764	0.12	RL-7128
Thorium-230		0.225	pCi/g	0.0599	0.137	RL-7128
Thorium-232		0.421	pCi/g	0.072	0.0686	RL-7128
Thorium-234	U	1.28	pCi/g	2.56	1.05	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB2

Uranium	U	0.287	pCi/g	0.309	0.284	RL-7128
Uranium-234		0.148	pCi/g	0.0364	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.144	pCi/g	0.0341	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg		9.93	SW846-8260
Methylene chloride	JU	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145105SA010

Collected: 1/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		12700	mg/kg		19.3	SW846-6010B
Antimony	X	10.9	mg/kg		9.77	SW846-6010B
Arsenic		6.45	mg/kg		0.963	SW846-6020
Barium	*N	150	mg/kg		2.41	SW846-6010B
Beryllium	U	0.482	mg/kg		0.482	SW846-6010B
Cadmium	UX	1.93	mg/kg		1.93	SW846-6010B
Calcium		547	mg/kg		96.3	SW846-6010B
Chromium		18.5	mg/kg		2.41	SW846-6010B
Cobalt	UX	2.41	mg/kg		2.41	SW846-6010B
Copper		13.5	mg/kg		2.41	SW846-6020
Iron		17200	mg/kg		19.3	SW846-6010B
Lead		12.5	mg/kg		0.963	SW846-6020
Magnesium		1920	mg/kg		4.82	SW846-6010B
Manganese	*N	251	mg/kg		2.41	SW846-6010B
Mercury		0.02	mg/kg		0.019	SW846-7471
Molybdenum	U	2.41	mg/kg		2.41	SW846-6010B
Nickel		13.3	mg/kg		4.82	SW846-6010B
Selenium	U	0.963	mg/kg		0.963	SW846-6020
Silver	BUX	2.41	mg/kg		2.41	SW846-6010B
Sodium	X	228	mg/kg		96.3	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium	B	1.05	mg/kg		0.963	SW846-6020
Vanadium	NUX	2.41	mg/kg		2.41	SW846-6010B
Zinc	X	26.8	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	0.07	mg/kg		0.07	SW846-8082
PCB-1221	U	0.07	mg/kg		0.07	SW846-8082
PCB-1232	U	0.07	mg/kg		0.07	SW846-8082
PCB-1242	U	0.07	mg/kg		0.07	SW846-8082
PCB-1248	U	0.07	mg/kg		0.07	SW846-8082
PCB-1254	U	0.07	mg/kg		0.07	SW846-8082
PCB-1260	U	0.07	mg/kg		0.07	SW846-8082
PCB-1268	U	0.07	mg/kg		0.07	SW846-8082
Polychlorinated biphenyl	U	0.07	mg/kg		0.07	SW846-8082
RADS						
Activity of U-235	U	0.00277	pCi/g	0.012	0.0363	RL-7128
Alpha activity		4.96	pCi/g	1.27	0.984	RL-7111
Americium-241	U	-0.0004	pCi/g	0.0059	0.0498	RL-7128
Beta activity		2.58	pCi/g	0.43	0.708	RL-7111
Cesium-137	U	-0.0499	pCi/g	0.0998	0.0563	RL-7124
Cobalt-60	U	-0.0102	pCi/g	0.0205	0.0474	RL-7124
Neptunium-237	U	0.0003	pCi/g	0.0006	0.0663	RL-7128
Plutonium-238	U	0.00039	pCi/g	0.0059	0.019	RL-7128
Plutonium-239/240	U	-0.0034	pCi/g	0.0043	0.0202	RL-7128
Technetium-99	U	-0.232	pCi/g	1.16	1.78	RL-7100
Thorium-228		0.459	pCi/g	0.06	0.111	RL-7128
Thorium-230		0.472	pCi/g	0.0639	0.128	RL-7128
Thorium-232		0.479	pCi/g	0.0595	0.0599	RL-7128
Thorium-234	U	2.25	pCi/g	4.51	1.5	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.245	pCi/g	0.188	0.281	RL-7128
Uranium-234	U	0.113	pCi/g	0.0316	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.129	pCi/g	0.0308	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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145-105

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145105SA015

Collected: 1/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8090	mg/kg		19.9	SW846-6010B
Antimony	X	11	mg/kg		9.42	SW846-6010B
Arsenic		3.57	mg/kg		0.994	SW846-6020
Barium	*N	162	mg/kg		2.49	SW846-6010B
Beryllium	U	0.497	mg/kg		0.497	SW846-6010B
Cadmium	UX	1.99	mg/kg		1.99	SW846-6010B
Calcium		1630	mg/kg		99.4	SW846-6010B
Chromium		14.4	mg/kg		2.49	SW846-6010B
Cobalt	UX	2.49	mg/kg		2.49	SW846-6010B
Copper		9.8	mg/kg		2.49	SW846-6020
Iron		10700	mg/kg		19.9	SW846-6010B
Lead		6.67	mg/kg		0.994	SW846-6020
Magnesium		1900	mg/kg		4.97	SW846-6010B
Manganese	*N	94.4	mg/kg		2.49	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.49	mg/kg		2.49	SW846-6010B
Nickel		13.3	mg/kg		4.97	SW846-6010B
Selenium	U	0.994	mg/kg		0.994	SW846-6020
Silver	BUX	2.49	mg/kg		2.49	SW846-6010B
Sodium	X	159	mg/kg		99.4	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium	BU	0.994	mg/kg		0.994	SW846-6020
Vanadium	NUX	2.49	mg/kg		2.49	SW846-6010B
Zinc	UX	19.9	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	-0.0042	pCi/g	0.0077	0.0363	RL-7128
Alpha activity		5.43	pCi/g	1.36	1.03	RL-7111
Americium-241	U	0.00285	pCi/g	0.0076	0.0501	RL-7128
Beta activity		3.15	pCi/g	0.491	0.719	RL-7111
Cesium-137	U	0.00773	pCi/g	0.0155	0.0505	RL-7124
Cobalt-60	U	-0.0016	pCi/g	0.0031	0.0424	RL-7124
Neptunium-237	U	-0.0012	pCi/g	0.0025	0.066	RL-7128
Plutonium-238	U	-3E-05	pCi/g	0.0042	0.019	RL-7128
Plutonium-239/240	U	-0.0064	pCi/g	0	0.02	RL-7128
Technetium-99	U	-0.139	pCi/g	1.11	1.78	RL-7100
Thorium-228		0.518	pCi/g	0.0599	0.111	RL-7128
Thorium-230		0.453	pCi/g	0.0588	0.127	RL-7128
Thorium-232		0.5	pCi/g	0.0577	0.0597	RL-7128
Thorium-234	U	1.44	pCi/g	2.87	1.22	RL-7124

*QUALIFIER Codes See attached List.

145-105

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.312	pCi/g	0.263	0.281	RL-7128
Uranium-234		0.14	pCi/g	0.0342	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.176	pCi/g	0.0346	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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145-105

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145105SA030

Collected: 1/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5310	mg/kg		19.1	SW846-6010B
Antimony	UX	9.62	mg/kg		9.62	SW846-6010B
Arsenic		2.16	mg/kg		0.954	SW846-6020
Barium	*N	30.6	mg/kg		2.39	SW846-6010B
Beryllium	U	0.477	mg/kg		0.477	SW846-6010B
Cadmium	UX	1.91	mg/kg		1.91	SW846-6010B
Calcium		1080	mg/kg		95.4	SW846-6010B
Chromium		13.7	mg/kg		2.39	SW846-6010B
Cobalt	UX	2.39	mg/kg		2.39	SW846-6010B
Copper		3.71	mg/kg		2.39	SW846-6020
Iron		13100	mg/kg		19.1	SW846-6010B
Lead		6.67	mg/kg		0.954	SW846-6020
Magnesium		677	mg/kg		4.77	SW846-6010B
Manganese	*N	18.9	mg/kg		2.39	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel		6.15	mg/kg		4.77	SW846-6010B
Selenium	U	0.954	mg/kg		0.954	SW846-6020
Silver	BUX	2.39	mg/kg		2.39	SW846-6010B
Sodium	X	99.4	mg/kg		95.4	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	BU	0.954	mg/kg		0.954	SW846-6020
Vanadium	NUX	2.39	mg/kg		2.39	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	-0.0032	pCi/g	0.0094	0.0362	RL-7128
Alpha activity		2.89	pCi/g	0.753	0.588	RL-7111
Americium-241	U	-0.0032	pCi/g	0.0032	0.0498	RL-7128
Beta activity		1.74	pCi/g	0.314	0.611	RL-7111
Cesium-137	U	-0.0209	pCi/g	0.0418	0.0398	RL-7124
Cobalt-60	U	-0.0014	pCi/g	0.0027	0.0341	RL-7124
Neptunium-237	U	-0.0016	pCi/g	0.0031	0.066	RL-7128
Plutonium-238	U	-0.0009	pCi/g	0.0042	0.0202	RL-7128
Plutonium-239/240	U	-0.0101	pCi/g	0.0042	0.0205	RL-7128
Technetium-99	U	-0.511	pCi/g	1.14	1.78	RL-7100
Thorium-228		0.355	pCi/g	0.0536	0.111	RL-7128
Thorium-230		0.17	pCi/g	0.042	0.128	RL-7128
Thorium-232		0.36	pCi/g	0.0516	0.0601	RL-7128
Thorium-234	U	1.56	pCi/g	3.12	1.22	RL-7124

*QUALIFIER Codes See attached List.

145-105

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.246	pCi/g	0.228	0.281	RL-7128
Uranium-234		0.156	pCi/g	0.0365	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0936	pCi/g	0.0292	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	4.99	ug/kg		4.99	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.95	ug/kg		9.95	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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145-105

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145105SA045

Collected: 1/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7070	mg/kg		18.2	SW846-6010B
Antimony	X	12.5	mg/kg		8.47	SW846-6010B
Arsenic		2.81	mg/kg		0.909	SW846-6020
Barium	*N	83.2	mg/kg		2.27	SW846-6010B
Beryllium		0.827	mg/kg		0.455	SW846-6010B
Cadmium	UX	1.82	mg/kg		1.82	SW846-6010B
Calcium		1400	mg/kg		90.9	SW846-6010B
Chromium		14.1	mg/kg		2.27	SW846-6010B
Cobalt	UX	2.27	mg/kg		2.27	SW846-6010B
Copper		10.9	mg/kg		2.27	SW846-6020
Iron		16300	mg/kg		18.2	SW846-6010B
Lead		19.8	mg/kg		4.55	SW846-6020
Magnesium		1500	mg/kg		4.55	SW846-6010B
Manganese	*N	144	mg/kg		2.27	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel		8.77	mg/kg		4.55	SW846-6010B
Selenium	U	0.909	mg/kg		0.909	SW846-6020
Silver	BUX	2.27	mg/kg		2.27	SW846-6010B
Sodium	UX	90.9	mg/kg		90.9	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	B	1.64	mg/kg		0.909	SW846-6020
Vanadium	NUX	2.27	mg/kg		2.27	SW846-6010B
Zinc	UX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0123	pCi/g	0.013	0.0363	RL-7128
Alpha activity		11.2	pCi/g	2.15	1.22	RL-7111
Americium-241	U	0.00663	pCi/g	0.0081	0.0499	RL-7128
Beta activity		6.29	pCi/g	0.77	0.774	RL-7111
Cesium-137	U	0.0154	pCi/g	0.0308	0.0613	RL-7124
Cobalt-60	U	0.00307	pCi/g	0.0061	0.0513	RL-7124
Neptunium-237	U	0.00955	pCi/g	0.01	0.0654	RL-7128
Plutonium-238	U	-0.003	pCi/g	0	0.0188	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0.0054	0.0197	RL-7128
Technetium-99	U	0.717	pCi/g	1.16	1.78	RL-7100
Thorium-228		0.775	pCi/g	0.0737	0.111	RL-7128
Thorium-230		0.534	pCi/g	0.0643	0.127	RL-7128
Thorium-232		0.727	pCi/g	0.0702	0.0594	RL-7128
Thorium-234	U	2.58	pCi/g	5.15	1.58	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium		0.795	pCi/g	0.416	0.282	RL-7128
Uranium-234		0.405	pCi/g	0.0509	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.378	pCi/g	0.0485	0.119	RL-7128

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145105SA060

Collected: 1/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	2370	mg/kg		17.7	SW846-6010B
Antimony		17.7	mg/kg		9.29	SW846-6010B
Arsenic		3.92	mg/kg		0.887	SW846-6020
Barium		27.1	mg/kg		2.22	SW846-6010B
Beryllium	BX	0.798	mg/kg		0.443	SW846-6010B
Cadmium	UX	1.77	mg/kg		1.77	SW846-6010B
Calcium		194	mg/kg		88.7	SW846-6010B
Chromium		16.4	mg/kg		2.22	SW846-6010B
Cobalt		5.45	mg/kg		2.22	SW846-6010B
Copper		2.77	mg/kg		2.22	SW846-6020
Iron		17200	mg/kg		17.7	SW846-6010B
Lead		2.93	mg/kg		0.887	SW846-6020
Magnesium	B	171	mg/kg		4.43	SW846-6010B
Manganese	N	178	mg/kg		2.22	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.22	mg/kg		2.22	SW846-6010B
Nickel		11.1	mg/kg		4.43	SW846-6010B
Selenium	U	0.887	mg/kg		0.887	SW846-6020
Silver	BUX	2.22	mg/kg		2.22	SW846-6010B
Sodium	BUX	88.7	mg/kg		88.7	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium	U	0.887	mg/kg		0.887	SW846-6020
Vanadium	X	10.5	mg/kg		2.22	SW846-6010B
Zinc	X	18.8	mg/kg		17.7	SW846-6010B
PCCB						
PCB-1016	U	0.08	mg/kg		0.08	SW846-8082
PCB-1221	U	0.08	mg/kg		0.08	SW846-8082
PCB-1232	U	0.08	mg/kg		0.08	SW846-8082
PCB-1242	U	0.08	mg/kg		0.08	SW846-8082
PCB-1248	U	0.08	mg/kg		0.08	SW846-8082
PCB-1254	U	0.08	mg/kg		0.08	SW846-8082
PCB-1260	U	0.08	mg/kg		0.08	SW846-8082
PCB-1268	U	0.08	mg/kg		0.08	SW846-8082
Polychlorinated biphenyl	U	0.08	mg/kg		0.08	SW846-8082
RADS						
Activity of U-235	U	-0.0033	pCi/g	0.0092	0.0362	RL-7128
Alpha activity		0.997	pCi/g	0.435	0.647	RL-7111
Americium-241	U	0.00099	pCi/g	0.0055	0.042	RL-7128
Beta activity		0.928	pCi/g	0.189	0.803	RL-7111
Cesium-137	U	0.00682	pCi/g	0.0136	0.0396	RL-7124
Cobalt-60	U	0.00391	pCi/g	0.0078	0.0409	RL-7124
Neptunium-237	U	0.00041	pCi/g	0.0008	0.0674	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0194	RL-7128
Plutonium-239/240	U	-0.0051	pCi/g	0.0039	0.02	RL-7128
Technetium-99		1.83	pCi/g	1.16	1.74	RL-7100
Thorium-228	U	0.0859	pCi/g	0.0442	0.115	RL-7128
Thorium-230	U	0.0363	pCi/g	0.0408	0.13	RL-7128
Thorium-232		0.1	pCi/g	0.0409	0.0662	RL-7128
Thorium-234		1.44	pCi/g	0.484	0.589	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.0535	pCi/g	0.0508	0.281	RL-7128
Uranium-234	U	0.0123	pCi/g	0.0231	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0445	pCi/g	0.0241	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	JU	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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145-106

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SA010

Collected: 1/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	6100	mg/kg		19	SW846-6010B
Antimony	U	9.46	mg/kg		9.46	SW846-6010B
Arsenic		3.32	mg/kg		0.949	SW846-6020
Barium		79	mg/kg		2.37	SW846-6010B
Beryllium	BX	0.512	mg/kg		0.474	SW846-6010B
Cadmium	UX	1.9	mg/kg		1.9	SW846-6010B
Calcium		1040	mg/kg		94.9	SW846-6010B
Chromium		11.1	mg/kg		2.37	SW846-6010B
Cobalt		4.6	mg/kg		2.37	SW846-6010B
Copper		9.22	mg/kg		2.37	SW846-6020
Iron		10800	mg/kg		19	SW846-6010B
Lead		11.8	mg/kg		0.949	SW846-6020
Magnesium	B	769	mg/kg		4.74	SW846-6010B
Manganese	N	265	mg/kg		2.37	SW846-6010B
Mercury		0.024	mg/kg		0.019	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel		6.57	mg/kg		4.74	SW846-6010B
Selenium	U	0.949	mg/kg		0.949	SW846-6020
Silver	BUX	2.37	mg/kg		2.37	SW846-6010B
Sodium	BUX	94.9	mg/kg		94.9	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium		0.976	mg/kg		0.949	SW846-6020
Vanadium	X	24.3	mg/kg		2.37	SW846-6010B
Zinc	UX	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0055	pCi/g	0.0073	0.036	RL-7128
Alpha activity		5.21	pCi/g	1.16	0.732	RL-7111
Americium-241	U	-0.0022	pCi/g	0.0033	0.0421	RL-7128
Beta activity		2.91	pCi/g	0.446	0.822	RL-7111
Cesium-137	U	0.0062	pCi/g	0.0124	0.0599	RL-7124
Cobalt-60	U	0.0162	pCi/g	0.0324	0.0533	RL-7124
Neptunium-237	U	0.00142	pCi/g	0.0028	0.0674	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0194	RL-7128
Plutonium-239/240	U	-0.0082	pCi/g	0.0024	0.0192	RL-7128
Technetium-99	U	0.228	pCi/g	1.14	1.74	RL-7100
Thorium-228		0.325	pCi/g	0.0552	0.11	RL-7128
Thorium-230		0.295	pCi/g	0.0549	0.125	RL-7128
Thorium-232		0.378	pCi/g	0.0562	0.0603	RL-7128
Thorium-234	U	1.34	pCi/g	2.67	0.906	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.0992	pCi/g	0.0938	0.281	RL-7128
Uranium-234	U	0.0524	pCi/g	0.0275	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0523	pCi/g	0.0249	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SA015

Collected: 1/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4190	mg/kg		18.2	SW846-6010B
Antimony	U	9.83	mg/kg		9.83	SW846-6010B
Arsenic		2.04	mg/kg		0.912	SW846-6020
Barium		84.4	mg/kg		2.28	SW846-6010B
Beryllium	BUX	0.456	mg/kg		0.456	SW846-6010B
Cadmium	UX	1.82	mg/kg		1.82	SW846-6010B
Calcium		901	mg/kg		91.2	SW846-6010B
Chromium		5.22	mg/kg		2.28	SW846-6010B
Cobalt		9.39	mg/kg		2.28	SW846-6010B
Copper		2.65	mg/kg		2.28	SW846-6020
Iron		8590	mg/kg		18.2	SW846-6010B
Lead		6.12	mg/kg		0.912	SW846-6020
Magnesium	B	528	mg/kg		4.56	SW846-6010B
Manganese	N	347	mg/kg		2.28	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel	U	4.56	mg/kg		4.56	SW846-6010B
Selenium	U	0.912	mg/kg		0.912	SW846-6020
Silver	BUX	2.28	mg/kg		2.28	SW846-6010B
Sodium	BX	115	mg/kg		91.2	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.912	mg/kg		0.912	SW846-6020
Vanadium	X	3.92	mg/kg		2.28	SW846-6010B
Zinc	UX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0007	pCi/g	0.0111	0.0363	RL-7128
Alpha activity		3.32	pCi/g	0.92	0.756	RL-7111
Americium-241	U	-0.0021	pCi/g	0.0034	0.0423	RL-7128
Beta activity		2.35	pCi/g	0.385	0.827	RL-7111
Cesium-137	U	0.00732	pCi/g	0.0146	0.0468	RL-7124
Cobalt-60	U	0.0152	pCi/g	0.0304	0.0471	RL-7124
Neptunium-237	U	-0.0028	pCi/g	0.0057	0.0674	RL-7128
Plutonium-238	U	0.00068	pCi/g	0.0062	0.0194	RL-7128
Plutonium-239/240	U	-0.0070	pCi/g	0	0.0193	RL-7128
Technetium-99	U	0.00652	pCi/g	0.652	1.74	RL-7100
Thorium-228		0.202	pCi/g	0.0522	0.112	RL-7128
Thorium-230		0.233	pCi/g	0.0562	0.127	RL-7128
Thorium-232		0.295	pCi/g	0.0563	0.0625	RL-7128
Thorium-234	U	1.46	pCi/g	2.92	0.827	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.188	pCi/g	0.169	0.283	RL-7128
Uranium-234	U	0.105	pCi/g	0.0331	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0838	pCi/g	0.0291	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	J	6.29	ug/kg		5.02	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SA030

Collected: 1/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	9720	mg/kg		19.8	SW846-6010B
Antimony		20.2	mg/kg		9.86	SW846-6010B
Arsenic		3.68	mg/kg		0.991	SW846-6020
Barium		64	mg/kg		2.48	SW846-6010B
Beryllium	BX	0.812	mg/kg		0.495	SW846-6010B
Cadmium	UX	1.98	mg/kg		1.98	SW846-6010B
Calcium		1700	mg/kg		99.1	SW846-6010B
Chromium		14.6	mg/kg		2.48	SW846-6010B
Cobalt		5.08	mg/kg		2.48	SW846-6010B
Copper		11.2	mg/kg		2.48	SW846-6020
Iron		22100	mg/kg		19.8	SW846-6010B
Lead		10	mg/kg		0.991	SW846-6020
Magnesium	B	1640	mg/kg		4.95	SW846-6010B
Manganese	N	113	mg/kg		2.48	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel		13.5	mg/kg		4.95	SW846-6010B
Selenium	U	0.991	mg/kg		0.991	SW846-6020
Silver	BUX	2.48	mg/kg		2.48	SW846-6010B
Sodium	BX	159	mg/kg		99.1	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium		1.55	mg/kg		0.991	SW846-6020
Vanadium	X	23.1	mg/kg		2.48	SW846-6010B
Zinc	X	29.4	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.004	pCi/g	0.0079	0.0362	RL-7128
Alpha activity		8.84	pCi/g	1.93	1.22	RL-7111
Americium-241	U	-0.0051	pCi/g	0.0027	0.0427	RL-7128
Beta activity		5.39	pCi/g	0.69	0.919	RL-7111
Cesium-137	U	0.0221	pCi/g	0.0441	0.0871	RL-7124
Cobalt-60	U	-0.0059	pCi/g	0.0119	0.0809	RL-7124
Neptunium-237	U	0.00171	pCi/g	0.0034	0.0688	RL-7128
Plutonium-238	U	0.00169	pCi/g	0.0086	0.0206	RL-7128
Plutonium-239/240	U	-0.0081	pCi/g	0.0021	0.0213	RL-7128
Technetium-99	U	1.15	pCi/g	1.15	1.74	RL-7100
Thorium-228		0.56	pCi/g	0.0752	0.112	RL-7128
Thorium-230		0.291	pCi/g	0.0584	0.128	RL-7128
Thorium-232		0.482	pCi/g	0.0676	0.0628	RL-7128
Thorium-234		4.7	pCi/g	1.09	1.02	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.338	pCi/g	0.285	0.281	RL-7128
Uranium-234		0.189	pCi/g	0.0383	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.153	pCi/g	0.0335	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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145-106

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SA045

Collected: 1/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	9620	mg/kg		19.4	SW846-6010B
Antimony		16.6	mg/kg		9.87	SW846-6010B
Arsenic		2.46	mg/kg		0.972	SW846-6020
Barium		70.7	mg/kg		2.43	SW846-6010B
Beryllium	BX	0.505	mg/kg		0.486	SW846-6010B
Cadmium	UX	1.94	mg/kg		1.94	SW846-6010B
Calcium		1600	mg/kg		97.2	SW846-6010B
Chromium		12.8	mg/kg		2.43	SW846-6010B
Cobalt		4.12	mg/kg		2.43	SW846-6010B
Copper		10.5	mg/kg		2.43	SW846-6020
Iron		17000	mg/kg		19.4	SW846-6010B
Lead		14.3	mg/kg		0.972	SW846-6020
Magnesium	B	1520	mg/kg		4.86	SW846-6010B
Manganese	N	116	mg/kg		2.43	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel		12.5	mg/kg		4.86	SW846-6010B
Selenium	U	0.972	mg/kg		0.972	SW846-6020
Silver	BUX	2.43	mg/kg		2.43	SW846-6010B
Sodium	BX	138	mg/kg		97.2	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium		1.48	mg/kg		0.972	SW846-6020
Vanadium	X	16.8	mg/kg		2.43	SW846-6010B
Zinc	X	31.6	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0029	pCi/g	0.0088	0.0356	RL-7128
Alpha activity		11.7	pCi/g	2.24	1.21	RL-7111
Americium-241	U	0.00413	pCi/g	0.0089	0.0427	RL-7128
Beta activity		6.14	pCi/g	0.747	0.917	RL-7111
Cesium-137	U	0.0435	pCi/g	0.087	0.0755	RL-7124
Cobalt-60	U	-0.0301	pCi/g	0.0603	0.0668	RL-7124
Neptunium-237	U	0.00129	pCi/g	0.0026	0.068	RL-7128
Plutonium-238	U	0.00025	pCi/g	0.0045	0.0207	RL-7128
Plutonium-239/240	U	-0.0063	pCi/g	0.0014	0.0203	RL-7128
Technetium-99	U	-0.9	pCi/g	1.09	1.74	RL-7100
Thorium-228		0.574	pCi/g	0.0762	0.111	RL-7128
Thorium-230		0.407	pCi/g	0.0679	0.128	RL-7128
Thorium-232		0.537	pCi/g	0.0728	0.0627	RL-7128
Thorium-234		1.33	pCi/g	0.681	1.12	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.453	pCi/g	0.377	0.28	RL-7128
Uranium-234		0.227	pCi/g	0.0391	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.23	pCi/g	0.0376	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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145-106

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SA060

Collected: 1/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	7730	mg/kg		18.2	SW846-6010B
Antimony		11.1	mg/kg		9.75	SW846-6010B
Arsenic		3.1	mg/kg		0.908	SW846-6020
Barium		98.5	mg/kg		2.27	SW846-6010B
Beryllium	BX	0.745	mg/kg		0.454	SW846-6010B
Cadmium	UX	1.82	mg/kg		1.82	SW846-6010B
Calcium		1360	mg/kg		90.8	SW846-6010B
Chromium		17.2	mg/kg		2.27	SW846-6010B
Cobalt		6.76	mg/kg		2.27	SW846-6010B
Copper		11.7	mg/kg		2.27	SW846-6020
Iron		17400	mg/kg		18.2	SW846-6010B
Lead		4.7	mg/kg		0.908	SW846-6020
Magnesium	B	1470	mg/kg		4.54	SW846-6010B
Manganese	N	242	mg/kg		2.27	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel		13.4	mg/kg		4.54	SW846-6010B
Selenium	U	0.908	mg/kg		0.908	SW846-6020
Silver	BUX	2.27	mg/kg		2.27	SW846-6010B
Sodium	BX	108	mg/kg		90.8	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.908	mg/kg		0.908	SW846-6020
Vanadium	X	16.8	mg/kg		2.27	SW846-6010B
Zinc	X	40.1	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0111	pCi/g	0.0052	0.0366	RL-7128
Alpha activity		4.44	pCi/g	1.32	1.23	RL-7111
Americium-241	U	-0.0052	pCi/g	0.0027	0.0422	RL-7128
Beta activity		3.79	pCi/g	0.551	0.92	RL-7111
Cesium-137	U	-0.0225	pCi/g	0.0449	0.0589	RL-7124
Cobalt-60	U	0.00099	pCi/g	0.002	0.0489	RL-7124
Neptunium-237	U	-0.0034	pCi/g	0.0067	0.0683	RL-7128
Plutonium-238	U	-0.0029	pCi/g	0	0.0203	RL-7128
Plutonium-239/240	U	-0.0096	pCi/g	0.0037	0.0203	RL-7128
Technetium-99	U	0.0783	pCi/g	1.17	1.74	RL-7100
Thorium-228		0.376	pCi/g	0.063	0.112	RL-7128
Thorium-230		0.233	pCi/g	0.0534	0.127	RL-7128
Thorium-232		0.532	pCi/g	0.0707	0.0636	RL-7128
Thorium-234	U	2.05	pCi/g	4.09	1.12	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.194	pCi/g	0.392	0.283	RL-7128
Uranium-234		0.143	pCi/g	0.0363	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0621	pCi/g	0.0264	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.97	ug/kg		9.97	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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12/18/2007

145-106

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145106SD010

Collected: 1/26/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4880	mg/kg		17.2	SW846-6010B
Antimony	U	9.82	mg/kg		9.82	SW846-6010B
Arsenic	U	0.859	mg/kg		0.859	SW846-6020
Barium		43.7	mg/kg		2.15	SW846-6010B
Beryllium	BUX	0.429	mg/kg		0.429	SW846-6010B
Cadmium	UX	1.72	mg/kg		1.72	SW846-6010B
Calcium		1040	mg/kg		85.9	SW846-6010B
Chromium		7.72	mg/kg		2.15	SW846-6010B
Cobalt		2.18	mg/kg		2.15	SW846-6010B
Copper		4.22	mg/kg		2.15	SW846-6020
Iron		3380	mg/kg		17.2	SW846-6010B
Lead		4.82	mg/kg		0.859	SW846-6020
Magnesium	B	770	mg/kg		4.29	SW846-6010B
Manganese	N	130	mg/kg		2.15	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.15	mg/kg		2.15	SW846-6010B
Nickel		4.85	mg/kg		4.29	SW846-6010B
Selenium	U	0.859	mg/kg		0.859	SW846-6020
Silver	BUX	2.15	mg/kg		2.15	SW846-6010B
Sodium	BUX	85.9	mg/kg		85.9	SW846-6010B
Thallium	U	1.72	mg/kg		1.72	SW846-6020
Uranium	U	0.859	mg/kg		0.859	SW846-6020
Vanadium	X	5.22	mg/kg		2.15	SW846-6010B
Zinc	UX	17.2	mg/kg		17.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0011	pCi/g	0.0099	0.0373	RL-7128
Alpha activity		6.1	pCi/g	1.32	0.798	RL-7111
Americium-241	U	0.00135	pCi/g	0.0059	0.0422	RL-7128
Beta activity		2.59	pCi/g	0.413	0.836	RL-7111
Cesium-137	U	0.0148	pCi/g	0.0296	0.0563	RL-7124
Cobalt-60	U	-0.0268	pCi/g	0.0536	0.0382	RL-7124
Neptunium-237	U	-0.0002	pCi/g	0.0003	0.0667	RL-7128
Plutonium-238	U	0.00025	pCi/g	0.0045	0.0202	RL-7128
Plutonium-239/240	U	-0.0047	pCi/g	0.0046	0.0203	RL-7128
Technetium-99	U	-0.13	pCi/g	1.09	1.74	RL-7100
Thorium-228		0.4	pCi/g	0.0669	0.112	RL-7128
Thorium-230		0.267	pCi/g	0.0588	0.129	RL-7128
Thorium-232		0.387	pCi/g	0.063	0.0633	RL-7128
Thorium-234	U	1.57	pCi/g	3.14	0.908	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.122	pCi/g	0.0891	0.283	RL-7128
Uranium-234	U	0.0521	pCi/g	0.027	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.069	pCi/g	0.0269	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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12/18/2007

145-107

BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145107SA010

Collected: 1/29/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	8350	mg/kg		18.6	SW846-6010B
Antimony		9.81	mg/kg		9.78	SW846-6010B
Arsenic		7.88	mg/kg		0.932	SW846-6020
Barium		89.7	mg/kg		2.33	SW846-6010B
Beryllium	BUX	0.466	mg/kg		0.466	SW846-6010B
Cadmium	UX	1.86	mg/kg		1.86	SW846-6010B
Calcium		4540	mg/kg		93.2	SW846-6010B
Chromium		12.1	mg/kg		2.33	SW846-6010B
Cobalt		5.96	mg/kg		2.33	SW846-6010B
Copper		9.66	mg/kg		2.33	SW846-6020
Iron		15700	mg/kg		18.6	SW846-6010B
Lead		13.4	mg/kg		0.932	SW846-6020
Magnesium	B	1540	mg/kg		4.66	SW846-6010B
Manganese	N	304	mg/kg		2.33	SW846-6010B
Mercury		0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel		9.76	mg/kg		4.66	SW846-6010B
Selenium	U	0.932	mg/kg		0.932	SW846-6020
Silver	BUX	2.33	mg/kg		2.33	SW846-6010B
Sodium	BX	179	mg/kg		93.2	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	U	0.932	mg/kg		0.932	SW846-6020
Vanadium	X	22.5	mg/kg		2.33	SW846-6010B
Zinc	X	21.1	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0068	pCi/g	0.0083	0.0358	RL-7128
Alpha activity		6.22	pCi/g	1.61	1.24	RL-7111
Americium-241	U	0.0042	pCi/g	0.0072	0.0417	RL-7128
Beta activity		4.03	pCi/g	0.574	0.922	RL-7111
Cesium-137	U	-0.004	pCi/g	0.0079	0.0476	RL-7124
Cobalt-60	U	-0.0071	pCi/g	0.0143	0.0453	RL-7124
Neptunium-237	U	0.00106	pCi/g	0.0021	0.0669	RL-7128
Plutonium-238	U	-0.0066	pCi/g	0.0042	0.0194	RL-7128
Plutonium-239/240	U	-0.0039	pCi/g	0.0044	0.0193	RL-7128
Technetium-99	U	0.104	pCi/g	1.09	1.74	RL-7100
Thorium-228		0.339	pCi/g	0.0557	0.11	RL-7128
Thorium-230		0.394	pCi/g	0.06	0.125	RL-7128
Thorium-232		0.415	pCi/g	0.0584	0.0598	RL-7128
Thorium-234	U	1.67	pCi/g	3.34	0.895	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.145	pCi/g	0.179	0.28	RL-7128
Uranium-234	U	0.0758	pCi/g	0.0283	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0761	pCi/g	0.0264	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,1-Trichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1,2-Trichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1-Dichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,1-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
1,2,3-Trichloropropane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dibromoethane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dichloroethane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dichloropropane	U	5.05	ug/kg		5.05	SW846-8260
1,2-Dimethylbenzene	U	5.05	ug/kg		5.05	SW846-8260
2-Butanone	U	5.05	ug/kg		5.05	SW846-8260
2-Chloroethyl vinyl ether	JU	5.05	ug/kg		5.05	SW846-8260
2-Hexanone	U	5.05	ug/kg		5.05	SW846-8260
4-Methyl-2-pentanone	U	5.05	ug/kg		5.05	SW846-8260
Acetone	J	6.64	ug/kg		5.05	SW846-8260
Acrolein	JU	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	5.05	ug/kg		5.05	SW846-8260
Benzene	U	5.05	ug/kg		5.05	SW846-8260
Bromodichloromethane	U	5.05	ug/kg		5.05	SW846-8260
Bromoform	U	5.05	ug/kg		5.05	SW846-8260
Bromomethane	JU	5.05	ug/kg		5.05	SW846-8260
Carbon disulfide	U	5.05	ug/kg		5.05	SW846-8260
Carbon tetrachloride	JU	5.05	ug/kg		5.05	SW846-8260
Chlorobenzene	U	5.05	ug/kg		5.05	SW846-8260
Chloroethane	U	5.05	ug/kg		5.05	SW846-8260
Chloroform	U	5.05	ug/kg		5.05	SW846-8260
Chloromethane	U	5.05	ug/kg		5.05	SW846-8260
cis-1,2-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
cis-1,3-Dichloropropene	U	5.05	ug/kg		5.05	SW846-8260
Dibromochloromethane	U	5.05	ug/kg		5.05	SW846-8260
Dibromomethane	U	5.05	ug/kg		5.05	SW846-8260
Dichlorodifluoromethane	JU	5.05	ug/kg		5.05	SW846-8260
Ethyl methacrylate	U	5.05	ug/kg		5.05	SW846-8260
Ethylbenzene	U	5.05	ug/kg		5.05	SW846-8260
Iodomethane	U	5.05	ug/kg		5.05	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.05	ug/kg		5.05	SW846-8260
Styrene	U	5.05	ug/kg		5.05	SW846-8260
Tetrachloroethene	U	5.05	ug/kg		5.05	SW846-8260
Toluene	U	5.05	ug/kg		5.05	SW846-8260
trans-1,2-Dichloroethene	U	5.05	ug/kg		5.05	SW846-8260
trans-1,3-Dichloropropene	U	5.05	ug/kg		5.05	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.05	ug/kg		5.05	SW846-8260
Trichloroethene	U	5.05	ug/kg		5.05	SW846-8260
Trichlorofluoromethane	JU	5.05	ug/kg		5.05	SW846-8260
Vinyl acetate	U	5.05	ug/kg		5.05	SW846-8260
Vinyl chloride	U	5.05	ug/kg		5.05	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145107SA015

Collected: 1/29/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	10200	mg/kg		19.5	SW846-6010B
Antimony	U	9.52	mg/kg		9.52	SW846-6010B
Arsenic		3.25	mg/kg		0.974	SW846-6020
Barium		54.8	mg/kg		2.44	SW846-6010B
Beryllium	BUX	0.487	mg/kg		0.487	SW846-6010B
Cadmium	UX	1.95	mg/kg		1.95	SW846-6010B
Calcium		544	mg/kg		97.4	SW846-6010B
Chromium		10.6	mg/kg		2.44	SW846-6010B
Cobalt		6.27	mg/kg		2.44	SW846-6010B
Copper		7.45	mg/kg		2.44	SW846-6020
Iron		11600	mg/kg		19.5	SW846-6010B
Lead		6.85	mg/kg		0.974	SW846-6020
Magnesium	B	864	mg/kg		4.87	SW846-6010B
Manganese	N	632	mg/kg		2.44	SW846-6010B
Mercury		0.02	mg/kg		0.016	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		6.79	mg/kg		4.87	SW846-6010B
Selenium	U	0.974	mg/kg		0.974	SW846-6020
Silver	BUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	BX	205	mg/kg		97.4	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.974	mg/kg		0.974	SW846-6020
Vanadium	X	14.7	mg/kg		2.44	SW846-6010B
Zinc	UX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0032	pCi/g	0.0098	0.0358	RL-7128
Alpha activity		5.67	pCi/g	1.4	1.01	RL-7111
Americium-241	U	-0.0034	pCi/g	0.0008	0.042	RL-7128
Beta activity		3.88	pCi/g	0.55	0.875	RL-7111
Cesium-137	U	-0.0235	pCi/g	0.0469	0.0455	RL-7124
Cobalt-60	U	0.00446	pCi/g	0.0089	0.0574	RL-7124
Neptunium-237	U	0.00243	pCi/g	0.0049	0.0675	RL-7128
Plutonium-238	U	-0.0013	pCi/g	0.0033	0.0194	RL-7128
Plutonium-239/240	U	-0.0109	pCi/g	0.0045	0.021	RL-7128
Technetium-99	U	0.241	pCi/g	1.12	1.74	RL-7100
Thorium-228		0.351	pCi/g	0.0595	0.111	RL-7128
Thorium-230		0.29	pCi/g	0.0569	0.126	RL-7128
Thorium-232		0.401	pCi/g	0.0602	0.0605	RL-7128
Thorium-234		1.77	pCi/g	0.733	0.695	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.191	pCi/g	0.186	0.281	RL-7128
Uranium-234	U	0.0761	pCi/g	0.0294	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.118	pCi/g	0.0307	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone		5.59	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	J	22.7	ug/kg		4.97	SW846-8260
Acrolein	JU	4.99	ug/kg		4.99	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	JU	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	JU	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.95	ug/kg		9.95	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145107SA030

Collected: 1/29/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	6840	mg/kg		17.9	SW846-6010B
Antimony	U	9.54	mg/kg		9.54	SW846-6010B
Arsenic	U	0.894	mg/kg		0.894	SW846-6020
Barium		40.3	mg/kg		2.23	SW846-6010B
Beryllium	BUX	0.447	mg/kg		0.447	SW846-6010B
Cadmium	UX	1.79	mg/kg		1.79	SW846-6010B
Calcium		1260	mg/kg		89.4	SW846-6010B
Chromium		9.12	mg/kg		2.23	SW846-6010B
Cobalt		2.76	mg/kg		2.23	SW846-6010B
Copper		3.6	mg/kg		2.23	SW846-6020
Iron		6090	mg/kg		17.9	SW846-6010B
Lead		6.76	mg/kg		0.894	SW846-6020
Magnesium	B	732	mg/kg		4.47	SW846-6010B
Manganese	N	55.8	mg/kg		2.23	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.23	mg/kg		2.23	SW846-6010B
Nickel	U	4.47	mg/kg		4.47	SW846-6010B
Selenium	U	0.894	mg/kg		0.894	SW846-6020
Silver	BUX	2.23	mg/kg		2.23	SW846-6010B
Sodium	BX	168	mg/kg		89.4	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium	U	0.894	mg/kg		0.894	SW846-6020
Vanadium	X	4.5	mg/kg		2.23	SW846-6010B
Zinc	UX	17.9	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0048	pCi/g	0.0093	0.0366	RL-7128
Alpha activity		2.56	pCi/g	0.74	0.641	RL-7111
Americium-241	U	0.00348	pCi/g	0.0081	0.044	RL-7128
Beta activity		2.33	pCi/g	0.379	0.801	RL-7111
Cesium-137	U	-0.0128	pCi/g	0.0256	0.0425	RL-7124
Cobalt-60	U	-0.015	pCi/g	0.03	0.0383	RL-7124
Neptunium-237	U	-0.0066	pCi/g	0.0069	0.0664	RL-7128
Plutonium-238	U	-0.0026	pCi/g	0.0007	0.0194	RL-7128
Plutonium-239/240	U	-0.0078	pCi/g	0.0016	0.0191	RL-7128
Technetium-99	U	0.45	pCi/g	1.12	1.74	RL-7100
Thorium-228		0.199	pCi/g	0.0574	0.116	RL-7128
Thorium-230		0.213	pCi/g	0.0613	0.129	RL-7128
Thorium-232		0.318	pCi/g	0.0661	0.0681	RL-7128
Thorium-234	U	1.11	pCi/g	2.22	0.862	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.327	pCi/g	0.351	0.281	RL-7128
Uranium-234		0.172	pCi/g	0.0371	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.16	pCi/g	0.0345	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	JU	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	JU	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	JU	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145107SA045

Collected: 1/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5770	mg/kg		17.9	SW846-6010B
Antimony	U	9.79	mg/kg		9.79	SW846-6010B
Arsenic	U	0.895	mg/kg		0.895	SW846-6020
Barium		28.1	mg/kg		2.24	SW846-6010B
Beryllium	BUX	0.448	mg/kg		0.448	SW846-6010B
Cadmium	UX	1.79	mg/kg		1.79	SW846-6010B
Calcium		1430	mg/kg		89.5	SW846-6010B
Chromium		6.43	mg/kg		2.24	SW846-6010B
Cobalt	U	2.24	mg/kg		2.24	SW846-6010B
Copper		2.97	mg/kg		2.24	SW846-6020
Iron		3010	mg/kg		17.9	SW846-6010B
Lead		5.77	mg/kg		0.895	SW846-6020
Magnesium	B	634	mg/kg		4.48	SW846-6010B
Manganese	N	13.4	mg/kg		2.24	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel	U	4.48	mg/kg		4.48	SW846-6010B
Selenium	U	0.895	mg/kg		0.895	SW846-6020
Silver	BUX	2.24	mg/kg		2.24	SW846-6010B
Sodium	BX	133	mg/kg		89.5	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium		1.16	mg/kg		0.895	SW846-6020
Vanadium	UX	2.24	mg/kg		2.24	SW846-6010B
Zinc	UX	17.9	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0022	pCi/g	0.0099	0.0362	RL-7128
Alpha activity		7.34	pCi/g	1.64	1.07	RL-7111
Americium-241	U	-0.0021	pCi/g	0.0033	0.042	RL-7128
Beta activity		4.77	pCi/g	0.63	0.885	RL-7111
Cesium-137	U	-0.0179	pCi/g	0.0358	0.0576	RL-7124
Cobalt-60	U	-0.0072	pCi/g	0.0143	0.0622	RL-7124
Neptunium-237	U	-0.0045	pCi/g	0.0063	0.067	RL-7128
Plutonium-238	U	0.00174	pCi/g	0.0054	0.019	RL-7128
Plutonium-239/240	U	-0.0094	pCi/g	0.0034	0.0194	RL-7128
Technetium-99	U	0.117	pCi/g	1.15	1.74	RL-7100
Thorium-228		0.478	pCi/g	0.0705	0.112	RL-7128
Thorium-230		0.35	pCi/g	0.0628	0.126	RL-7128
Thorium-232		0.449	pCi/g	0.066	0.0621	RL-7128
Thorium-234	U	2.34	pCi/g	4.68	1.16	RL-7124

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.37	pCi/g	0.325	0.281	RL-7128
Uranium-234		0.178	pCi/g	0.0366	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.194	pCi/g	0.0357	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	JU	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	JU	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	JU	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

145107SA060

Collected: 1/31/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	3670	mg/kg		18.5	SW846-6010B
Antimony	U	9.45	mg/kg		9.45	SW846-6010B
Arsenic	U	0.926	mg/kg		0.926	SW846-6020
Barium		26.8	mg/kg		2.32	SW846-6010B
Beryllium	BUX	0.463	mg/kg		0.463	SW846-6010B
Cadmium	UX	1.85	mg/kg		1.85	SW846-6010B
Calcium		552	mg/kg		92.6	SW846-6010B
Chromium		4.87	mg/kg		2.32	SW846-6010B
Cobalt		5.05	mg/kg		2.32	SW846-6010B
Copper		2.9	mg/kg		2.32	SW846-6020
Iron		3270	mg/kg		18.5	SW846-6010B
Lead		4.83	mg/kg		0.926	SW846-6020
Magnesium	B	371	mg/kg		4.63	SW846-6010B
Manganese	N	54.4	mg/kg		2.32	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.32	mg/kg		2.32	SW846-6010B
Nickel	U	4.63	mg/kg		4.63	SW846-6010B
Selenium	U	0.926	mg/kg		0.926	SW846-6020
Silver	BUX	2.32	mg/kg		2.32	SW846-6010B
Sodium	BUX	92.6	mg/kg		92.6	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	U	0.926	mg/kg		0.926	SW846-6020
Vanadium	X	6.01	mg/kg		2.32	SW846-6010B
Zinc	UX	18.5	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0116	pCi/g	0.0041	0.0361	RL-7128
Alpha activity		2.34	pCi/g	0.649	0.543	RL-7111
Americium-241	U	-0.0022	pCi/g	0.0032	0.0418	RL-7128
Beta activity		2.9	pCi/g	0.434	0.764	RL-7111
Cesium-137	U	-0.0036	pCi/g	0.0073	0.045	RL-7124
Cobalt-60	U	-0.0047	pCi/g	0.0093	0.0434	RL-7124
Neptunium-237	U	0.00727	pCi/g	0.0092	0.0669	RL-7128
Plutonium-238	U	0.00171	pCi/g	0.0054	0.0192	RL-7128
Plutonium-239/240	U	-0.0094	pCi/g	0.0034	0.0189	RL-7128
Technetium-99	U	0.222	pCi/g	1.11	1.74	RL-7100
Thorium-228		0.247	pCi/g	0.0483	0.11	RL-7128
Thorium-230		0.145	pCi/g	0.041	0.124	RL-7128
Thorium-232		0.276	pCi/g	0.0476	0.0596	RL-7128
Thorium-234	U	1.73	pCi/g	3.46	0.862	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU145 Burial Ground OU SWMU 145 Angle Borings BGOU07-SWMU145ASB3

Uranium	U	0.12	pCi/g	0.243	0.281	RL-7128
Uranium-234	U	0.0654	pCi/g	0.0285	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0664	pCi/g	0.0262	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	JU	5.01	ug/kg		5.01	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	JU	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	JU	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002001SA010

Collected: 4/4/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5540	mg/kg		19.5	SW846-6010B
Antimony	U	9.99	mg/kg		9.99	SW846-6010B
Arsenic		2.47	mg/kg		0.973	SW846-6020
Barium		61.9	mg/kg		2.43	SW846-6010B
Beryllium	BUX	0.487	mg/kg		0.487	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium		1420	mg/kg		97.3	SW846-6010B
Chromium		10.7	mg/kg		2.43	SW846-6010B
Cobalt	UX	2.43	mg/kg		2.43	SW846-6010B
Copper		6.92	mg/kg		2.43	SW846-6020
Iron	*	8250	mg/kg		19.5	SW846-6010B
Lead		4.7	mg/kg		0.973	SW846-6020
Magnesium		1330	mg/kg		4.87	SW846-6010B
Manganese	N	49.9	mg/kg		2.43	SW846-6010B
Mercury		0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel	X	7.14	mg/kg		4.87	SW846-6010B
Selenium	U	0.973	mg/kg		0.973	SW846-6020
Silver	U	2.43	mg/kg		2.43	SW846-6010B
Sodium	X	445	mg/kg		97.3	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.973	mg/kg		0.973	SW846-6020
Vanadium	X	2.8	mg/kg		2.43	SW846-6010B
Zinc	X	22.1	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0183	pCi/g	0.0132	0.0374	RL-7128
Alpha activity		3.27	pCi/g	1.28	1.66	RL-7111
Americium-241	U	0.00113	pCi/g	0.0077	0.0297	RL-7128
Beta activity		2.23	pCi/g	0.434	1.68	RL-7111
Cesium-137	U	-0.0318	pCi/g	0.0636	0.0431	RL-7124
Cobalt-60	U	0.018	pCi/g	0.0359	0.0516	RL-7124
Neptunium-237	U	-0.0065	pCi/g	0.0027	0.0417	RL-7128
Plutonium-238	U	0.00162	pCi/g	0.0052	0.0175	RL-7128
Plutonium-239/240	U	-0.0049	pCi/g	0.0053	0.0182	RL-7128
Technetium-99	U	1.22	pCi/g	1.21	1.59	RL-7100
Thorium-228		0.347	pCi/g	0.0544	0.0843	RL-7128
Thorium-230		0.297	pCi/g	0.0538	0.241	RL-7128
Thorium-232		0.327	pCi/g	0.0514	0.167	RL-7128
Thorium-234	U	1.5	pCi/g	3	0.891	RL-7124

*QUALIFIER Codes See attached List.

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.196	pCi/g	0.142	0.302	RL-7128
Uranium-234	U	0.0851	pCi/g	0.031	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0922	pCi/g	0.0313	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	U	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg		9.91	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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12/18/2007

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002001SA015

Collected: 4/4/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6660	mg/kg		19.2	SW846-6010B
Antimony	U	9.34	mg/kg		9.34	SW846-6010B
Arsenic		2.06	mg/kg		0.959	SW846-6020
Barium		62.7	mg/kg		2.4	SW846-6010B
Beryllium	BUX	0.479	mg/kg		0.479	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium		1100	mg/kg		95.9	SW846-6010B
Chromium		9.51	mg/kg		2.4	SW846-6010B
Cobalt	X	3.17	mg/kg		2.4	SW846-6010B
Copper		4.82	mg/kg		2.4	SW846-6020
Iron	*	7900	mg/kg		19.2	SW846-6010B
Lead		6.07	mg/kg		0.959	SW846-6020
Magnesium		857	mg/kg		4.79	SW846-6010B
Manganese	N	481	mg/kg		2.4	SW846-6010B
Mercury		0.017	mg/kg		0.015	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel	X	6.35	mg/kg		4.79	SW846-6010B
Selenium	U	0.959	mg/kg		0.959	SW846-6020
Silver	U	2.4	mg/kg		2.4	SW846-6010B
Sodium	X	424	mg/kg		95.9	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium	U	0.959	mg/kg		0.959	SW846-6020
Vanadium	UX	2.4	mg/kg		2.4	SW846-6010B
Zinc	UX	19.2	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00562	pCi/g	0.0069	0.0385	RL-7128
Alpha activity		5.2	pCi/g	1.59	1.45	RL-7111
Americium-241	U	-0.0058	pCi/g	0.0033	0.0294	RL-7128
Beta activity		2.26	pCi/g	0.436	1.62	RL-7111
Cesium-137	U	-0.0161	pCi/g	0.0322	0.0444	RL-7124
Cobalt-60	U	-0.0086	pCi/g	0.0173	0.0457	RL-7124
Neptunium-237	U	-0.0113	pCi/g	0.0095	0.0422	RL-7128
Plutonium-238	U	-0.0021	pCi/g	0	0.0161	RL-7128
Plutonium-239/240	U	-0.0023	pCi/g	0	0.0196	RL-7128
Technetium-99	U	-0.107	pCi/g	1.13	1.59	RL-7100
Thorium-228		0.321	pCi/g	0.0538	0.0843	RL-7128
Thorium-230		0.263	pCi/g	0.0538	0.241	RL-7128
Thorium-232		0.321	pCi/g	0.0518	0.167	RL-7128
Thorium-234	U	0.912	pCi/g	1.82	0.876	RL-7124

*QUALIFIER Codes See attached List.

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.062	pCi/g	0.0654	0.303	RL-7128
Uranium-234	U	0.0314	pCi/g	0.0262	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.025	pCi/g	0.0238	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002001SA030

Collected: 4/4/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6670	mg/kg		18.1	SW846-6010B
Antimony	U	8.93	mg/kg		8.93	SW846-6010B
Arsenic		3.98	mg/kg		0.906	SW846-6020
Barium		20.1	mg/kg		2.27	SW846-6010B
Beryllium	UX	0.453	mg/kg		0.453	SW846-6010B
Cadmium	U	1.81	mg/kg		1.81	SW846-6010B
Calcium		867	mg/kg		90.6	SW846-6010B
Chromium		35.7	mg/kg		2.27	SW846-6010B
Cobalt		4.43	mg/kg		2.27	SW846-6010B
Copper		7.34	mg/kg		2.27	SW846-6020
Iron		13600	mg/kg		18.1	SW846-6010B
Lead		6.9	mg/kg		0.906	SW846-6020
Magnesium		442	mg/kg		4.53	SW846-6010B
Manganese	*N	165	mg/kg		2.27	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel		6.59	mg/kg		4.53	SW846-6010B
Selenium	U	0.906	mg/kg		0.906	SW846-6020
Silver	UX	2.27	mg/kg		2.27	SW846-6010B
Sodium		183	mg/kg		90.6	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	B	1.05	mg/kg		0.906	SW846-6020
Vanadium		21.4	mg/kg		2.27	SW846-6010B
Zinc		30.4	mg/kg		18.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0125	pCi/g	0.0113	0.0383	RL-7128
Alpha activity		4.94	pCi/g	1.75	1.99	RL-7111
Americium-241	U	-0.0088	pCi/g	0.0028	0.0296	RL-7128
Beta activity		3.82	pCi/g	0.66	1.74	RL-7111
Cesium-137	U	0.0104	pCi/g	0.0208	0.0524	RL-7124
Cobalt-60	U	0.00738	pCi/g	0.0148	0.0445	RL-7124
Neptunium-237	U	-0.0029	pCi/g	0.0046	0.041	RL-7128
Plutonium-238	U	-0.0021	pCi/g	0	0.0167	RL-7128
Plutonium-239/240	U	-0.0020	pCi/g	0.0005	0.0177	RL-7128
Technetium-99	U	0.506	pCi/g	1.24	1.59	RL-7100
Thorium-228		0.442	pCi/g	0.0614	0.0842	RL-7128
Thorium-230		0.342	pCi/g	0.0579	0.241	RL-7128
Thorium-232		0.646	pCi/g	0.0716	0.167	RL-7128
Thorium-234	U	0.793	pCi/g	1.59	0.827	RL-7124

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.682	pCi/g	0.577	0.304	RL-7128
Uranium-234		0.35	pCi/g	0.0523	0.136	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.319	pCi/g	0.0502	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	U	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg		9.91	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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12/18/2007

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002001SA045

Collected: 4/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		5110	mg/kg		18.8	SW846-6010B
Antimony	U	9.06	mg/kg		9.06	SW846-6010B
Arsenic		1.26	mg/kg		0.938	SW846-6020
Barium		16.9	mg/kg		2.35	SW846-6010B
Beryllium	UX	0.469	mg/kg		0.469	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		445	mg/kg		93.8	SW846-6010B
Chromium		4.94	mg/kg		2.35	SW846-6010B
Cobalt		2.59	mg/kg		2.35	SW846-6010B
Copper	J	3.34	mg/kg		2.35	SW846-6020
Iron		7110	mg/kg		18.8	SW846-6010B
Lead		4.19	mg/kg		0.938	SW846-6020
Magnesium		238	mg/kg		4.69	SW846-6010B
Manganese	*N	35.7	mg/kg		2.35	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	U	4.69	mg/kg		4.69	SW846-6010B
Selenium	U	0.938	mg/kg		0.938	SW846-6020
Silver	UX	2.35	mg/kg		2.35	SW846-6010B
Sodium		104	mg/kg		93.8	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	BU	0.938	mg/kg		0.938	SW846-6020
Vanadium		17.8	mg/kg		2.35	SW846-6010B
Zinc	U	18.8	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.02	pCi/g	0.0128	0.0382	RL-7128
Alpha activity		3.87	pCi/g	1.31	1.4	RL-7111
Americium-241	U	-0.0044	pCi/g	0.0043	0.0294	RL-7128
Beta activity		3.68	pCi/g	0.629	1.61	RL-7111
Cesium-137	U	0.00298	pCi/g	0.006	0.0393	RL-7124
Cobalt-60	U	0.00774	pCi/g	0.0155	0.0398	RL-7124
Neptunium-237	U	-0.0038	pCi/g	0.0027	0.0439	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0038	0.0194	RL-7128
Plutonium-239/240	U	-0.002	pCi/g	0.0005	0.0205	RL-7128
Technetium-99	U	0.934	pCi/g	1.2	1.59	RL-7100
Thorium-228		0.341	pCi/g	0.0549	0.0842	RL-7128
Thorium-230	U	0.184	pCi/g	0.047	0.242	RL-7128
Thorium-232		0.41	pCi/g	0.0582	0.169	RL-7128
Thorium-234		1.89	pCi/g	0.545	0.661	RL-7124

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BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.243	pCi/g	0.161	0.304	RL-7128
Uranium-234	U	0.119	pCi/g	0.0357	0.136	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.104	pCi/g	0.035	0.131	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,1,1-Trichloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,1,2,2-Tetrachloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,1,2-Trichloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,1-Dichloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,1-Dichloroethene	U	18.4	ug/kg		18.4	SW846-8260
1,2,3-Trichloropropane	U	18.4	ug/kg		18.4	SW846-8260
1,2-Dibromoethane	U	18.4	ug/kg		18.4	SW846-8260
1,2-Dichloroethane	U	18.4	ug/kg		18.4	SW846-8260
1,2-Dichloropropane	U	18.4	ug/kg		18.4	SW846-8260
1,2-Dimethylbenzene	U	18.4	ug/kg		18.4	SW846-8260
2-Butanone	U	18.4	ug/kg		18.4	SW846-8260
2-Chloroethyl vinyl ether	JU	18.4	ug/kg		18.4	SW846-8260
2-Hexanone	U	18.4	ug/kg		18.4	SW846-8260
4-Methyl-2-pentanone	U	18.4	ug/kg		18.4	SW846-8260
Acetone	U	18.4	ug/kg		18.4	SW846-8260
Acrolein	U	18.4	ug/kg		18.4	SW846-8260
Acrylonitrile	U	18.4	ug/kg		18.4	SW846-8260
Benzene	U	18.4	ug/kg		18.4	SW846-8260
Bromodichloromethane	U	18.4	ug/kg		18.4	SW846-8260
Bromoform	U	18.4	ug/kg		18.4	SW846-8260
Bromomethane	U	18.4	ug/kg		18.4	SW846-8260
Carbon disulfide	U	18.4	ug/kg		18.4	SW846-8260
Carbon tetrachloride	U	18.4	ug/kg		18.4	SW846-8260
Chlorobenzene	U	18.4	ug/kg		18.4	SW846-8260
Chloroethane	U	18.4	ug/kg		18.4	SW846-8260
Chloroform	U	18.4	ug/kg		18.4	SW846-8260
Chloromethane	U	18.4	ug/kg		18.4	SW846-8260
cis-1,2-Dichloroethene		118	ug/kg		18.4	SW846-8260
cis-1,3-Dichloropropene	U	18.4	ug/kg		18.4	SW846-8260
Dibromochloromethane	U	18.4	ug/kg		18.4	SW846-8260
Dibromomethane	U	18.4	ug/kg		18.4	SW846-8260
Dichlorodifluoromethane	JU	18.4	ug/kg		18.4	SW846-8260
Ethyl methacrylate	U	18.4	ug/kg		18.4	SW846-8260
Ethylbenzene	U	18.4	ug/kg		18.4	SW846-8260
Iodomethane	U	18.4	ug/kg		18.4	SW846-8260
m,p-Xylene	U	36.8	ug/kg		36.8	SW846-8260
Methylene chloride	U	18.4	ug/kg		18.4	SW846-8260
Styrene	U	18.4	ug/kg		18.4	SW846-8260
Tetrachloroethene	U	18.4	ug/kg		18.4	SW846-8260
Toluene	U	18.4	ug/kg		18.4	SW846-8260
trans-1,2-Dichloroethene	U	18.4	ug/kg		18.4	SW846-8260
trans-1,3-Dichloropropene	U	18.4	ug/kg		18.4	SW846-8260
Trans-1,4-Dichloro-2-butene	U	18.4	ug/kg		18.4	SW846-8260
Trichloroethene		428	ug/kg		18.4	SW846-8260
Trichlorofluoromethane	U	18.4	ug/kg		18.4	SW846-8260
Vinyl acetate	U	18.4	ug/kg		18.4	SW846-8260
Vinyl chloride	U	18.4	ug/kg		18.4	SW846-8260

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12/18/2007

002-001

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002001SA060

Collected: 4/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2620	mg/kg		19	SW846-6010B
Antimony	U	8.52	mg/kg		8.52	SW846-6010B
Arsenic		2.38	mg/kg		0.949	SW846-6020
Barium		43.4	mg/kg		2.37	SW846-6010B
Beryllium	UX	0.475	mg/kg		0.475	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium		281	mg/kg		94.9	SW846-6010B
Chromium		5.6	mg/kg		2.37	SW846-6010B
Cobalt		4.18	mg/kg		2.37	SW846-6010B
Copper	J	2.9	mg/kg		2.37	SW846-6020
Iron		7190	mg/kg		19	SW846-6010B
Lead		1.85	mg/kg		0.949	SW846-6020
Magnesium		238	mg/kg		4.75	SW846-6010B
Manganese	*N	193	mg/kg		2.37	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel	U	4.75	mg/kg		4.75	SW846-6010B
Selenium	U	0.949	mg/kg		0.949	SW846-6020
Silver	UX	2.37	mg/kg		2.37	SW846-6010B
Sodium	U	94.9	mg/kg		94.9	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	BU	0.949	mg/kg		0.949	SW846-6020
Vanadium		6.85	mg/kg		2.37	SW846-6010B
Zinc	U	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00086	pCi/g	0.0042	0.0377	RL-7128
Alpha activity	U	1.37	pCi/g	0.707	1.42	RL-7111
Americium-241	U	-0.0058	pCi/g	0.0033	0.0298	RL-7128
Beta activity	U	1.35	pCi/g	0.284	1.61	RL-7111
Cesium-137	U	0.00115	pCi/g	0.0023	0.0374	RL-7124
Cobalt-60	U	0.00808	pCi/g	0.0162	0.0399	RL-7124
Neptunium-237	U	-0.0019	pCi/g	0.0066	0.0451	RL-7128
Plutonium-238	U	-0.0035	pCi/g	0.0027	0.0175	RL-7128
Plutonium-239/240	U	-0.0023	pCi/g	0	0.0183	RL-7128
Technetium-99	U	0.107	pCi/g	1.17	1.59	RL-7100
Thorium-228		0.164	pCi/g	0.0403	0.084	RL-7128
Thorium-230	U	0.044	pCi/g	0.0331	0.241	RL-7128
Thorium-232	U	0.134	pCi/g	0.0346	0.167	RL-7128
Thorium-234	U	0.722	pCi/g	1.44	0.698	RL-7124

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BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.0761	pCi/g	0.154	0.303	RL-7128
Uranium-234	U	0.0407	pCi/g	0.0272	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0346	pCi/g	0.0257	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	JU	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	U	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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12/18/2007

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SA010

Collected: 4/3/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5940	mg/kg		17.1	SW846-6010B
Antimony	U	9.27	mg/kg		9.27	SW846-6010B
Arsenic		1.22	mg/kg		0.853	SW846-6020
Barium		54.7	mg/kg		2.13	SW846-6010B
Beryllium	UX	0.427	mg/kg		0.427	SW846-6010B
Cadmium	U	1.71	mg/kg		1.71	SW846-6010B
Calcium		858	mg/kg		85.3	SW846-6010B
Chromium		8.62	mg/kg		2.13	SW846-6010B
Cobalt		2.8	mg/kg		2.13	SW846-6010B
Copper	J	5.26	mg/kg		2.13	SW846-6020
Iron		5950	mg/kg		17.1	SW846-6010B
Lead		5.4	mg/kg		0.853	SW846-6020
Magnesium		750	mg/kg		4.27	SW846-6010B
Manganese	*N	119	mg/kg		2.13	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.13	mg/kg		2.13	SW846-6010B
Nickel		6.4	mg/kg		4.27	SW846-6010B
Selenium	U	0.853	mg/kg		0.853	SW846-6020
Silver	UX	2.13	mg/kg		2.13	SW846-6010B
Sodium	U	85.3	mg/kg		85.3	SW846-6010B
Thallium	U	1.71	mg/kg		1.71	SW846-6020
Uranium	B	15.3	mg/kg		0.853	SW846-6020
Vanadium		10.8	mg/kg		2.13	SW846-6010B
Zinc	U	17.1	mg/kg		17.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235		0.08	pCi/g	0.0373	0.0467	RL-7128
Alpha activity		7.99	pCi/g	1.95	1.43	RL-7111
Americium-241	U	-0.007	pCi/g	0.0009	0.0295	RL-7128
Beta activity		8.62	pCi/g	1.12	1.62	RL-7111
Cesium-137	U	0.0103	pCi/g	0.0205	0.0496	RL-7124
Cobalt-60	U	-0.0141	pCi/g	0.0281	0.0427	RL-7124
Neptunium-237	U	-0.0074	pCi/g	0.0043	0.0445	RL-7128
Plutonium-238	U	0.00222	pCi/g	0.0086	0.0177	RL-7128
Plutonium-239/240	U	-0.0001	pCi/g	0.0043	0.0194	RL-7128
Technetium-99	U	0.649	pCi/g	1.2	1.59	RL-7100
Thorium-228		0.273	pCi/g	0.0516	0.0849	RL-7128
Thorium-230		0.297	pCi/g	0.0574	0.242	RL-7128
Thorium-232		0.335	pCi/g	0.0549	0.168	RL-7128
Thorium-234		11	pCi/g	0.995	0.851	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium		6.77	pCi/g	3.24	0.327	RL-7128
Uranium-234		0.824	pCi/g	0.113	0.145	RL-7128
Uranium-235		0.212	wt %	0.104		RL-7128
Uranium-238		5.87	pCi/g	0.287	0.136	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SA015

Collected: 4/3/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7290	mg/kg		18	SW846-6010B
Antimony	U	6.24	mg/kg		6.24	SW846-6010B
Arsenic		1.21	mg/kg		0.9	SW846-6020
Barium		55.8	mg/kg		2.25	SW846-6010B
Beryllium	UX	0.45	mg/kg		0.45	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium		965	mg/kg		90	SW846-6010B
Chromium		9.12	mg/kg		2.25	SW846-6010B
Cobalt		5.3	mg/kg		2.25	SW846-6010B
Copper	J	5.51	mg/kg		2.25	SW846-6020
Iron		6830	mg/kg		18	SW846-6010B
Lead		6.58	mg/kg		0.9	SW846-6020
Magnesium		812	mg/kg		4.5	SW846-6010B
Manganese	*N	278	mg/kg		2.25	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel		6.91	mg/kg		4.5	SW846-6010B
Selenium	U	0.9	mg/kg		0.9	SW846-6020
Silver	UX	2.25	mg/kg		2.25	SW846-6010B
Sodium		107	mg/kg		90	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	BU	0.9	mg/kg		0.9	SW846-6020
Vanadium		11.9	mg/kg		2.25	SW846-6010B
Zinc	U	18	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00399	pCi/g	0.0060	0.0376	RL-7128
Alpha activity		3.37	pCi/g	1.23	1.45	RL-7111
Americium-241	U	-0.0043	pCi/g	0.0044	0.0293	RL-7128
Beta activity		2.81	pCi/g	0.516	1.62	RL-7111
Cesium-137	U	-0.0321	pCi/g	0.0642	0.0404	RL-7124
Cobalt-60	U	-0.0031	pCi/g	0.0062	0.0451	RL-7124
Neptunium-237	U	0.00165	pCi/g	0.0087	0.0412	RL-7128
Plutonium-238	U	-0.0003	pCi/g	0.0036	0.0173	RL-7128
Plutonium-239/240	U	0.00114	pCi/g	0.0062	0.018	RL-7128
Technetium-99	U	-0.405	pCi/g	1.16	1.59	RL-7100
Thorium-228		0.322	pCi/g	0.0573	0.0854	RL-7128
Thorium-230	U	0.239	pCi/g	0.0542	0.243	RL-7128
Thorium-232		0.373	pCi/g	0.0589	0.17	RL-7128
Thorium-234	U	1.51	pCi/g	3.03	0.844	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.191	pCi/g	0.226	0.302	RL-7128
Uranium-234	U	0.099	pCi/g	0.0325	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0882	pCi/g	0.0303	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	U	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	JU	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	JU	4.97	ug/kg		4.97	SW846-8260
Acrolein	U	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	U	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.95	ug/kg		9.95	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SA030

Collected: 4/3/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		3930	mg/kg		19.9	SW846-6010B
Antimony	U	8.16	mg/kg		8.16	SW846-6010B
Arsenic		2.52	mg/kg		0.996	SW846-6020
Barium		13.3	mg/kg		2.49	SW846-6010B
Beryllium	UX	0.498	mg/kg		0.498	SW846-6010B
Cadmium	U	1.99	mg/kg		1.99	SW846-6010B
Calcium		502	mg/kg		99.6	SW846-6010B
Chromium		4.11	mg/kg		2.49	SW846-6010B
Cobalt	U	2.49	mg/kg		2.49	SW846-6010B
Copper	J	3.74	mg/kg		2.49	SW846-6020
Iron		10600	mg/kg		19.9	SW846-6010B
Lead		4.31	mg/kg		0.996	SW846-6020
Magnesium		238	mg/kg		4.98	SW846-6010B
Manganese	*N	35	mg/kg		2.49	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.49	mg/kg		2.49	SW846-6010B
Nickel	U	4.98	mg/kg		4.98	SW846-6010B
Selenium	U	0.996	mg/kg		0.996	SW846-6020
Silver	UX	2.49	mg/kg		2.49	SW846-6010B
Sodium	U	99.6	mg/kg		99.6	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium	BU	0.996	mg/kg		0.996	SW846-6020
Vanadium		15	mg/kg		2.49	SW846-6010B
Zinc	U	19.9	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00451	pCi/g	0.008	0.0379	RL-7128
Alpha activity		3.34	pCi/g	1.24	1.49	RL-7111
Americium-241	U	0.00043	pCi/g	0.0086	0.029	RL-7128
Beta activity		2.79	pCi/g	0.513	1.64	RL-7111
Cesium-137	U	-0.0228	pCi/g	0.0456	0.0389	RL-7124
Cobalt-60	U	-0.0131	pCi/g	0.0263	0.0337	RL-7124
Neptunium-237	U	-0.0101	pCi/g	0.0098	0.0447	RL-7128
Plutonium-238	U	0.00134	pCi/g	0.0048	0.0168	RL-7128
Plutonium-239/240	U	-0.0052	pCi/g	0.0042	0.0176	RL-7128
Technetium-99	U	0.595	pCi/g	1.19	1.59	RL-7100
Thorium-228		0.331	pCi/g	0.0534	0.0836	RL-7128
Thorium-230	U	0.18	pCi/g	0.0465	0.241	RL-7128
Thorium-232		0.451	pCi/g	0.0596	0.167	RL-7128
Thorium-234	U	1.2	pCi/g	2.4	0.79	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.247	pCi/g	0.348	0.303	RL-7128
Uranium-234	U	0.111	pCi/g	0.0344	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.132	pCi/g	0.0351	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SA045

Collected: 4/4/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		10900	mg/kg		18.4	SW846-6010B
Antimony	U	9.04	mg/kg		9.04	SW846-6010B
Arsenic		13.7	mg/kg		0.918	SW846-6020
Barium		127	mg/kg		2.3	SW846-6010B
Beryllium	X	1.05	mg/kg		0.459	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium		915	mg/kg		91.8	SW846-6010B
Chromium		12.2	mg/kg		2.3	SW846-6010B
Cobalt		20	mg/kg		2.3	SW846-6010B
Copper	J	10.9	mg/kg		2.3	SW846-6020
Iron		34900	mg/kg		18.4	SW846-6010B
Lead		10.3	mg/kg		0.918	SW846-6020
Magnesium		882	mg/kg		4.59	SW846-6010B
Manganese	*N	454	mg/kg		2.3	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		15.1	mg/kg		4.59	SW846-6010B
Selenium	U	0.918	mg/kg		0.918	SW846-6020
Silver	UX	2.3	mg/kg		2.3	SW846-6010B
Sodium	U	91.8	mg/kg		91.8	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	B	1.49	mg/kg		0.918	SW846-6020
Vanadium		23.2	mg/kg		2.3	SW846-6010B
Zinc		42.6	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00114	pCi/g	0.0047	0.0379	RL-7128
Alpha activity		5.86	pCi/g	1.98	2.14	RL-7111
Americium-241	U	-0.0039	pCi/g	0.0064	0.0298	RL-7128
Beta activity		4.8	pCi/g	0.781	1.76	RL-7111
Cesium-137	U	0.00429	pCi/g	0.0086	0.0567	RL-7124
Cobalt-60	U	0.0154	pCi/g	0.0309	0.0641	RL-7124
Neptunium-237	U	0.00194	pCi/g	0.0091	0.0424	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0038	0.0166	RL-7128
Plutonium-239/240	U	-0.0023	pCi/g	0	0.0171	RL-7128
Technetium-99	U	0.5	pCi/g	1.19	1.59	RL-7100
Thorium-228		0.57	pCi/g	0.0731	0.0846	RL-7128
Thorium-230		0.448	pCi/g	0.0691	0.242	RL-7128
Thorium-232		0.629	pCi/g	0.0747	0.168	RL-7128
Thorium-234	U	0.831	pCi/g	1.66	0.92	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.539	pCi/g	1.08	0.303	RL-7128
Uranium-234		0.297	pCi/g	0.0476	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.241	pCi/g	0.0435	0.131	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	JU	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SA060

Collected: 4/4/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7960	mg/kg		17.3	SW846-6010B
Antimony	U	9.21	mg/kg		9.21	SW846-6010B
Arsenic		2.02	mg/kg		0.863	SW846-6020
Barium		38.8	mg/kg		2.16	SW846-6010B
Beryllium	UX	0.432	mg/kg		0.432	SW846-6010B
Cadmium	U	1.73	mg/kg		1.73	SW846-6010B
Calcium		577	mg/kg		86.3	SW846-6010B
Chromium		5.89	mg/kg		2.16	SW846-6010B
Cobalt	U	2.16	mg/kg		2.16	SW846-6010B
Copper	J	5.91	mg/kg		2.16	SW846-6020
Iron		12800	mg/kg		17.3	SW846-6010B
Lead		4.63	mg/kg		0.863	SW846-6020
Magnesium		814	mg/kg		4.32	SW846-6010B
Manganese	*N	146	mg/kg		2.16	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.16	mg/kg		2.16	SW846-6010B
Nickel		7.43	mg/kg		4.32	SW846-6010B
Selenium	U	0.863	mg/kg		0.863	SW846-6020
Silver	UX	2.16	mg/kg		2.16	SW846-6010B
Sodium	U	86.3	mg/kg		86.3	SW846-6010B
Thallium	U	1.73	mg/kg		1.73	SW846-6020
Uranium	BU	0.863	mg/kg		0.863	SW846-6020
Vanadium		16.9	mg/kg		2.16	SW846-6010B
Zinc		32.9	mg/kg		17.3	SW846-6010B
PPCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0255	pCi/g	0.0143	0.0383	RL-7128
Alpha activity		7.6	pCi/g	2.32	2.17	RL-7111
Americium-241	U	-0.004	pCi/g	0.0062	0.0292	RL-7128
Beta activity		4.37	pCi/g	0.731	1.76	RL-7111
Cesium-137	U	-0.0285	pCi/g	0.057	0.0478	RL-7124
Cobalt-60	U	-0.0044	pCi/g	0.0087	0.053	RL-7124
Neptunium-237	U	-0.0029	pCi/g	0.0046	0.0428	RL-7128
Plutonium-238	U	-0.0003	pCi/g	0.0035	0.0181	RL-7128
Plutonium-239/240	U	-0.0005	pCi/g	0.0035	0.0189	RL-7128
Technetium-99	U	-0.399	pCi/g	1.17	1.59	RL-7100
Thorium-228		0.441	pCi/g	0.0677	0.0854	RL-7128
Thorium-230		0.341	pCi/g	0.0635	0.243	RL-7128
Thorium-232		0.509	pCi/g	0.0704	0.168	RL-7128
Thorium-234	U	1.39	pCi/g	2.78	0.89	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium		0.482	pCi/g	0.276	0.304	RL-7128
Uranium-234		0.25	pCi/g	0.0467	0.136	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.206	pCi/g	0.0416	0.131	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,1,1-Trichloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,1,2,2-Tetrachloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,1,2-Trichloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,1-Dichloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,1-Dichloroethene	U	11.4	ug/kg		11.4	SW846-8260
1,2,3-Trichloropropane	U	11.4	ug/kg		11.4	SW846-8260
1,2-Dibromoethane	U	11.4	ug/kg		11.4	SW846-8260
1,2-Dichloroethane	U	11.4	ug/kg		11.4	SW846-8260
1,2-Dichloropropane	U	11.4	ug/kg		11.4	SW846-8260
1,2-Dimethylbenzene	U	11.4	ug/kg		11.4	SW846-8260
2-Butanone	U	11.4	ug/kg		11.4	SW846-8260
2-Chloroethyl vinyl ether	JU	11.4	ug/kg		11.4	SW846-8260
2-Hexanone	U	11.4	ug/kg		11.4	SW846-8260
4-Methyl-2-pentanone	U	11.4	ug/kg		11.4	SW846-8260
Acetone	U	11.4	ug/kg		11.4	SW846-8260
Acrolein	U	11.4	ug/kg		11.4	SW846-8260
Acrylonitrile	U	11.4	ug/kg		11.4	SW846-8260
Benzene	U	11.4	ug/kg		11.4	SW846-8260
Bromodichloromethane	U	11.4	ug/kg		11.4	SW846-8260
Bromoform	U	11.4	ug/kg		11.4	SW846-8260
Bromomethane	U	11.4	ug/kg		11.4	SW846-8260
Carbon disulfide	U	11.4	ug/kg		11.4	SW846-8260
Carbon tetrachloride	U	11.4	ug/kg		11.4	SW846-8260
Chlorobenzene	U	11.4	ug/kg		11.4	SW846-8260
Chloroethane	U	11.4	ug/kg		11.4	SW846-8260
Chloroform	U	11.4	ug/kg		11.4	SW846-8260
Chloromethane	U	11.4	ug/kg		11.4	SW846-8260
cis-1,2-Dichloroethene		14.9	ug/kg		11.4	SW846-8260
cis-1,3-Dichloropropene	U	11.4	ug/kg		11.4	SW846-8260
Dibromochloromethane	U	11.4	ug/kg		11.4	SW846-8260
Dibromomethane	U	11.4	ug/kg		11.4	SW846-8260
Dichlorodifluoromethane	JU	11.4	ug/kg		11.4	SW846-8260
Ethyl methacrylate	U	11.4	ug/kg		11.4	SW846-8260
Ethylbenzene	U	11.4	ug/kg		11.4	SW846-8260
Iodomethane	U	11.4	ug/kg		11.4	SW846-8260
m,p-Xylene	U	22.8	ug/kg		22.8	SW846-8260
Methylene chloride	U	11.4	ug/kg		11.4	SW846-8260
Styrene	U	11.4	ug/kg		11.4	SW846-8260
Tetrachloroethene	U	11.4	ug/kg		11.4	SW846-8260
Toluene	U	11.4	ug/kg		11.4	SW846-8260
trans-1,2-Dichloroethene	U	11.4	ug/kg		11.4	SW846-8260
trans-1,3-Dichloropropene	U	11.4	ug/kg		11.4	SW846-8260
Trans-1,4-Dichloro-2-butene	U	11.4	ug/kg		11.4	SW846-8260
Trichloroethene		366	ug/kg		11.4	SW846-8260
Trichlorofluoromethane	U	11.4	ug/kg		11.4	SW846-8260
Vinyl acetate	U	11.4	ug/kg		11.4	SW846-8260
Vinyl chloride	U	11.4	ug/kg		11.4	SW846-8260

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

002002SD030

Collected: 4/3/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5350	mg/kg		18	SW846-6010B
Antimony	U	8.1	mg/kg		8.1	SW846-6010B
Arsenic	U	0.899	mg/kg		0.899	SW846-6020
Barium		17.4	mg/kg		2.25	SW846-6010B
Beryllium	UX	0.45	mg/kg		0.45	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium		657	mg/kg		89.9	SW846-6010B
Chromium		3.14	mg/kg		2.25	SW846-6010B
Cobalt	U	2.25	mg/kg		2.25	SW846-6010B
Copper	J	2.89	mg/kg		2.25	SW846-6020
Iron		3980	mg/kg		18	SW846-6010B
Lead		3.92	mg/kg		0.899	SW846-6020
Magnesium		325	mg/kg		4.5	SW846-6010B
Manganese	*N	18.8	mg/kg		2.25	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel	U	4.5	mg/kg		4.5	SW846-6010B
Selenium	U	0.899	mg/kg		0.899	SW846-6020
Silver	UX	2.25	mg/kg		2.25	SW846-6010B
Sodium	U	89.9	mg/kg		89.9	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	BU	0.899	mg/kg		0.899	SW846-6020
Vanadium		7.37	mg/kg		2.25	SW846-6010B
Zinc	U	18	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00667	pCi/g	0.0101	0.0383	RL-7128
Alpha activity		3.01	pCi/g	1.14	1.41	RL-7111
Americium-241	U	-0.0039	pCi/g	0.0063	0.0293	RL-7128
Beta activity		2.84	pCi/g	0.519	1.61	RL-7111
Cesium-137	U	-0.0102	pCi/g	0.0204	0.039	RL-7124
Cobalt-60	U	0.0112	pCi/g	0.0224	0.0442	RL-7124
Neptunium-237	U	-0.0042	pCi/g	0.0019	0.0423	RL-7128
Plutonium-238	U	0.00128	pCi/g	0.0048	0.0165	RL-7128
Plutonium-239/240	U	-0.0003	pCi/g	0.0039	0.0176	RL-7128
Technetium-99	U	0.922	pCi/g	1.2	1.59	RL-7100
Thorium-228		0.3	pCi/g	0.054	0.0842	RL-7128
Thorium-230	U	0.169	pCi/g	0.0461	0.241	RL-7128
Thorium-232		0.387	pCi/g	0.0569	0.167	RL-7128
Thorium-234		1.59	pCi/g	0.596	0.574	RL-7124

002-002

BGOU07-SWMU2A

Burial Ground OU SWMU 2 Angle Borings BGOU07-SWMU2ASB

Uranium	U	0.279	pCi/g	0.362	0.304	RL-7128
Uranium-234		0.176	pCi/g	0.0391	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0965	pCi/g	0.0322	0.13	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	U	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg		9.91	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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12/18/2007

030-001

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030001SA010

Collected: 3/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7620	mg/kg		18.1	SW846-6010B
Antimony	U	9.42	mg/kg		9.42	SW846-6010B
Arsenic	U	0.905	mg/kg		0.905	SW846-6020
Barium		81.5	mg/kg		2.26	SW846-6010B
Beryllium	U	0.452	mg/kg		0.452	SW846-6010B
Cadmium	U	1.81	mg/kg		1.81	SW846-6010B
Calcium	*N	1250	mg/kg		90.5	SW846-6010B
Chromium		12.8	mg/kg		2.26	SW846-6010B
Cobalt	UX	2.26	mg/kg		2.26	SW846-6010B
Copper		6.27	mg/kg		2.26	SW846-6020
Iron		5940	mg/kg		18.1	SW846-6010B
Lead		5.22	mg/kg		0.905	SW846-6020
Magnesium		1050	mg/kg		4.52	SW846-6010B
Manganese	N	66	mg/kg		2.26	SW846-6010B
Mercury		0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.26	mg/kg		2.26	SW846-6010B
Nickel		9.35	mg/kg		4.52	SW846-6010B
Selenium	U	0.905	mg/kg		0.905	SW846-6020
Silver	UX	2.26	mg/kg		2.26	SW846-6010B
Sodium		170	mg/kg		90.5	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	U	0.905	mg/kg		0.905	SW846-6020
Vanadium		3.69	mg/kg		2.26	SW846-6010B
Zinc	UX	18.1	mg/kg		18.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00306	pCi/g	0.0078	0.0386	RL-7128
Alpha activity		2.93	pCi/g	0.992	0.942	RL-7111
Americium-241	U	0.00263	pCi/g	0.0087	0.0299	RL-7128
Beta activity		1.68	pCi/g	0.372	1.08	RL-7111
Cesium-137	U	0.0327	pCi/g	0.0188	0.0494	RL-7124
Cobalt-60	U	-0.0067	pCi/g	0.0134	0.0456	RL-7124
Neptunium-237	U	0.00676	pCi/g	0.011	0.043	RL-7128
Plutonium-238	U	-0.0043	pCi/g	0.0034	0.0188	RL-7128
Plutonium-239/240	U	0.00055	pCi/g	0.0059	0.0187	RL-7128
Technetium-99	U	-1.22	pCi/g	1.2	1.92	RL-7100
Thorium-228		0.453	pCi/g	0.0843	0.0997	RL-7128
Thorium-230		0.38	pCi/g	0.077	0.118	RL-7128
Thorium-232		0.401	pCi/g	0.0778	0.0594	RL-7128
Thorium-234		2.22	pCi/g	0.801	0.699	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.161	pCi/g	0.218	0.294	RL-7128
Uranium-234	U	0.0707	pCi/g	0.0326	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0868	pCi/g	0.0326	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	UX	490	ug/kg		490	SW846-8270
2-Chlorophenol	UX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	UX	490	ug/kg		490	SW846-8270
2-Methylphenol	UX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
2-Nitrophenol	UX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	UX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	UX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Nitrophenol	UX	490	ug/kg		490	SW846-8270
Acenaphthene	UX	490	ug/kg		490	SW846-8270
Acenaphthylene	UX	490	ug/kg		490	SW846-8270
Anthracene	UX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	UX	490	ug/kg		490	SW846-8270
Benzenemethanol	UX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	UX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	UX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzoic acid	BUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	UX	490	ug/kg		490	SW846-8270
Chrysene	UX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	UX	490	ug/kg		490	SW846-8270
Dibenzofuran	UX	490	ug/kg		490	SW846-8270
Diethyl phthalate	UX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	UX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	UX	490	ug/kg		490	SW846-8270
Fluoranthene	UX	490	ug/kg		490	SW846-8270
Fluorene	UX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	UX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	UX	490	ug/kg	490	SW846-8270
Hexachloroethane	UX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	490	ug/kg	490	SW846-8270
Isophorone	UX	490	ug/kg	490	SW846-8270
m,p-Cresol	UX	490	ug/kg	490	SW846-8270
Naphthalene	UX	490	ug/kg	490	SW846-8270
Nitrobenzene	UX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	UX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	UX	490	ug/kg	490	SW846-8270
Pentachlorophenol	UX	490	ug/kg	490	SW846-8270
Phenanthrene	UX	490	ug/kg	490	SW846-8270
Phenol	UX	490	ug/kg	490	SW846-8270
Pyrene	UX	490	ug/kg	490	SW846-8270
Pyridine	UX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	9.96	ug/kg	9.96	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

030-001**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030001SA015

Collected: 3/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7700	mg/kg		19.6	SW846-6010B
Antimony	U	9.57	mg/kg		9.57	SW846-6010B
Arsenic		2.62	mg/kg		0.98	SW846-6020
Barium		35.7	mg/kg		2.45	SW846-6010B
Beryllium	U	0.49	mg/kg		0.49	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium	*N	987	mg/kg		98	SW846-6010B
Chromium		7.31	mg/kg		2.45	SW846-6010B
Cobalt	X	5.15	mg/kg		2.45	SW846-6010B
Copper		4.2	mg/kg		2.45	SW846-6020
Iron		16200	mg/kg		19.6	SW846-6010B
Lead		7.39	mg/kg		0.98	SW846-6020
Magnesium		689	mg/kg		4.9	SW846-6010B
Manganese	N	92.1	mg/kg		2.45	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel		9.38	mg/kg		4.9	SW846-6010B
Selenium	U	0.98	mg/kg		0.98	SW846-6020
Silver	UX	2.45	mg/kg		2.45	SW846-6010B
Sodium	U	98	mg/kg		98	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium		1.72	mg/kg		0.98	SW846-6020
Vanadium		4.35	mg/kg		2.45	SW846-6010B
Zinc	UX	19.6	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0299	pCi/g	0.0154	0.0383	RL-7128
Alpha activity		4.07	pCi/g	1.3	1.2	RL-7111
Americium-241	U	0.00233	pCi/g	0.0079	0.03	RL-7128
Beta activity		4.18	pCi/g	0.743	1.23	RL-7111
Cesium-137	U	-0.0277	pCi/g	0.0554	0.0474	RL-7124
Cobalt-60	U	-0.0113	pCi/g	0.0226	0.0366	RL-7124
Neptunium-237	U	0.00583	pCi/g	0.0084	0.0405	RL-7128
Plutonium-238	U	-0.0028	pCi/g	0.0019	0.0193	RL-7128
Plutonium-239/240	U	0.00254	pCi/g	0.0072	0.019	RL-7128
Technetium-99	U	-0.281	pCi/g	1.23	1.92	RL-7100
Thorium-228		0.301	pCi/g	0.0649	0.0991	RL-7128
Thorium-230		0.263	pCi/g	0.0629	0.116	RL-7128
Thorium-232		0.374	pCi/g	0.0707	0.0595	RL-7128
Thorium-234		2.56	pCi/g	0.867	0.712	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium		1.3	pCi/g	0.635	0.294	RL-7128
Uranium-234		0.5	pCi/g	0.0575	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.77	pCi/g	0.0691	0.124	RL-7128

SVOA

1,2,4-Trichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	UX	470	ug/kg		470	SW846-8270
2-Chlorophenol	UX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	UX	470	ug/kg		470	SW846-8270
2-Methylphenol	UX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
2-Nitrophenol	UX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	UX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	UX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	UX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	UX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Nitrophenol	UX	470	ug/kg		470	SW846-8270
Acenaphthene	UX	470	ug/kg		470	SW846-8270
Acenaphthylene	UX	470	ug/kg		470	SW846-8270
Anthracene	UX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	UX	470	ug/kg		470	SW846-8270
Benzenemethanol	UX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	UX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	UX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	UX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	UX	470	ug/kg		470	SW846-8270
Benzoic acid	BX	510	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	UX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	UX	470	ug/kg		470	SW846-8270
Chrysene	UX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	UX	470	ug/kg		470	SW846-8270
Dibenzofuran	UX	470	ug/kg		470	SW846-8270
Diethyl phthalate	UX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	UX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	UX	470	ug/kg		470	SW846-8270
Fluoranthene	UX	470	ug/kg		470	SW846-8270
Fluorene	UX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	UX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	UX	470	ug/kg	470	SW846-8270
Hexachloroethane	UX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	470	ug/kg	470	SW846-8270
Isophorone	UX	470	ug/kg	470	SW846-8270
m,p-Cresol	UX	470	ug/kg	470	SW846-8270
Naphthalene	UX	470	ug/kg	470	SW846-8270
Nitrobenzene	UX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	UX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	UX	470	ug/kg	470	SW846-8270
Pentachlorophenol	UX	470	ug/kg	470	SW846-8270
Phenanthrene	UX	470	ug/kg	470	SW846-8270
Phenol	UX	470	ug/kg	470	SW846-8270
Pyrene	UX	470	ug/kg	470	SW846-8270
Pyridine	UX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	JU	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

030-001**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030001SA030

Collected: 3/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4330	mg/kg		19.6	SW846-6010B
Antimony	U	9.88	mg/kg		9.88	SW846-6010B
Arsenic		1.52	mg/kg		0.981	SW846-6020
Barium		17.1	mg/kg		2.45	SW846-6010B
Beryllium	U	0.49	mg/kg		0.49	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium	*N	566	mg/kg		98.1	SW846-6010B
Chromium		11.6	mg/kg		2.45	SW846-6010B
Cobalt	UX	2.45	mg/kg		2.45	SW846-6010B
Copper		3.83	mg/kg		2.45	SW846-6020
Iron		10800	mg/kg		19.6	SW846-6010B
Lead		5.58	mg/kg		0.981	SW846-6020
Magnesium		271	mg/kg		4.9	SW846-6010B
Manganese	N	24.8	mg/kg		2.45	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel	U	4.9	mg/kg		4.9	SW846-6010B
Selenium	U	0.981	mg/kg		0.981	SW846-6020
Silver	UX	2.45	mg/kg		2.45	SW846-6010B
Sodium	U	98.1	mg/kg		98.1	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium	U	0.981	mg/kg		0.981	SW846-6020
Vanadium		13.8	mg/kg		2.45	SW846-6010B
Zinc	UX	19.6	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00401	pCi/g	0.0068	0.0376	RL-7128
Alpha activity		3.86	pCi/g	1.16	0.951	RL-7111
Americium-241	U	-0.0007	pCi/g	0.0048	0.03	RL-7128
Beta activity		1.66	pCi/g	0.369	1.1	RL-7111
Cesium-137	U	-0.0078	pCi/g	0.0157	0.0386	RL-7124
Cobalt-60	U	0.0156	pCi/g	0.0312	0.0331	RL-7124
Neptunium-237	U	0.00291	pCi/g	0.0058	0.0407	RL-7128
Plutonium-238	U	-0.003	pCi/g	0.0022	0.0182	RL-7128
Plutonium-239/240	U	0.00424	pCi/g	0.0064	0.0177	RL-7128
Technetium-99	U	0.197	pCi/g	1.24	1.92	RL-7100
Thorium-228		0.223	pCi/g	0.0462	0.0943	RL-7128
Thorium-230		0.198	pCi/g	0.044	0.113	RL-7128
Thorium-232		0.308	pCi/g	0.0516	0.0534	RL-7128
Thorium-234	U	0.297	pCi/g	0.595	0.799	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.137	pCi/g	0.142	0.292	RL-7128
Uranium-234	U	0.0815	pCi/g	0.0319	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0516	pCi/g	0.0287	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	UX	460	ug/kg		460	SW846-8270
2-Chlorophenol	UX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	UX	460	ug/kg		460	SW846-8270
2-Methylphenol	UX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
2-Nitrophenol	UX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	UX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	UX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Nitrophenol	UX	460	ug/kg		460	SW846-8270
Acenaphthene	UX	460	ug/kg		460	SW846-8270
Acenaphthylene	UX	460	ug/kg		460	SW846-8270
Anthracene	UX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	UX	460	ug/kg		460	SW846-8270
Benzenemethanol	UX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	UX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	UX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzoic acid	BX	530	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	UX	460	ug/kg		460	SW846-8270
Chrysene	UX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	UX	460	ug/kg		460	SW846-8270
Dibenzofuran	UX	460	ug/kg		460	SW846-8270
Diethyl phthalate	UX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	UX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	BUX	460	ug/kg		460	SW846-8270
Di-n-octylphthalate	UX	460	ug/kg		460	SW846-8270
Fluoranthene	UX	460	ug/kg		460	SW846-8270
Fluorene	UX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	UX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	UX	460	ug/kg	460	SW846-8270
Hexachloroethane	UX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	460	ug/kg	460	SW846-8270
Isophorone	UX	460	ug/kg	460	SW846-8270
m,p-Cresol	UX	460	ug/kg	460	SW846-8270
Naphthalene	UX	460	ug/kg	460	SW846-8270
Nitrobenzene	UX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	UX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	UX	460	ug/kg	460	SW846-8270
Pentachlorophenol	UX	460	ug/kg	460	SW846-8270
Phenanthrene	UX	460	ug/kg	460	SW846-8270
Phenol	UX	460	ug/kg	460	SW846-8270
Pyrene	UX	460	ug/kg	460	SW846-8270
Pyridine	UX	460	ug/kg	460	SW846-8270
VOA					
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

030-001**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene		37.4	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030001SA045

Collected: 3/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8080	mg/kg		17.6	SW846-6010B
Antimony	U	9.18	mg/kg		9.18	SW846-6010B
Arsenic		2.64	mg/kg		0.88	SW846-6020
Barium		49.4	mg/kg		2.2	SW846-6010B
Beryllium		0.484	mg/kg		0.44	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium	*N	1370	mg/kg		88	SW846-6010B
Chromium		14.9	mg/kg		2.2	SW846-6010B
Cobalt	X	2.57	mg/kg		2.2	SW846-6010B
Copper		10.7	mg/kg		2.2	SW846-6020
Iron		17700	mg/kg		17.6	SW846-6010B
Lead		9.62	mg/kg		0.88	SW846-6020
Magnesium		1410	mg/kg		4.4	SW846-6010B
Manganese	N	70.6	mg/kg		2.2	SW846-6010B
Mercury		0.02	mg/kg		0.019	SW846-7471
Molybdenum	U	2.2	mg/kg		2.2	SW846-6010B
Nickel		10.1	mg/kg		4.4	SW846-6010B
Selenium	U	0.88	mg/kg		0.88	SW846-6020
Silver	UX	2.2	mg/kg		2.2	SW846-6010B
Sodium	U	88	mg/kg		88	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium		2.03	mg/kg		0.88	SW846-6020
Vanadium		5.78	mg/kg		2.2	SW846-6010B
Zinc	X	44.1	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0294	pCi/g	0.0204	0.0415	RL-7128
Alpha activity		9.89	pCi/g	2.45	1.63	RL-7111
Americium-241	U	0.0111	pCi/g	0.0095	0.0296	RL-7128
Beta activity		5.66	pCi/g	0.933	1.34	RL-7111
Cesium-137	U	-0.0301	pCi/g	0.0603	0.0619	RL-7124
Cobalt-60	U	0.0196	pCi/g	0.0392	0.0723	RL-7124
Neptunium-237	U	0.00276	pCi/g	0.0055	0.0434	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0033	0.019	RL-7128
Plutonium-239/240	U	0.00075	pCi/g	0.0062	0.0191	RL-7128
Technetium-99	U	-0.478	pCi/g	1.23	1.92	RL-7100
Thorium-228		0.617	pCi/g	0.078	0.0952	RL-7128
Thorium-230		0.571	pCi/g	0.0756	0.112	RL-7128
Thorium-232		0.626	pCi/g	0.077	0.0542	RL-7128
Thorium-234	U	1.98	pCi/g	3.96	1.08	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium		0.815	pCi/g	0.54	0.303	RL-7128
Uranium-234		0.429	pCi/g	0.071	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.357	pCi/g	0.0651	0.127	RL-7128

SVOA

1,2,4-Trichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	UX	480	ug/kg		480	SW846-8270
2-Chlorophenol	UX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	UX	480	ug/kg		480	SW846-8270
2-Methylphenol	UX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
2-Nitrophenol	UX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	UX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	UX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Nitrophenol	UX	480	ug/kg		480	SW846-8270
Acenaphthene	UX	480	ug/kg		480	SW846-8270
Acenaphthylene	UX	480	ug/kg		480	SW846-8270
Anthracene	UX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	UX	480	ug/kg		480	SW846-8270
Benzenemethanol	UX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	UX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	UX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzoic acid	BX	500	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	UX	480	ug/kg		480	SW846-8270
Chrysene	UX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	UX	480	ug/kg		480	SW846-8270
Dibenzofuran	UX	480	ug/kg		480	SW846-8270
Diethyl phthalate	UX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	UX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	UX	480	ug/kg		480	SW846-8270
Fluoranthene	UX	480	ug/kg		480	SW846-8270
Fluorene	UX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	UX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	UX	480	ug/kg	480	SW846-8270
Hexachloroethane	UX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	480	ug/kg	480	SW846-8270
Isophorone	UX	480	ug/kg	480	SW846-8270
m,p-Cresol	UX	480	ug/kg	480	SW846-8270
Naphthalene	UX	480	ug/kg	480	SW846-8270
Nitrobenzene	UX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	UX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	UX	480	ug/kg	480	SW846-8270
Pentachlorophenol	UX	480	ug/kg	480	SW846-8270
Phenanthrene	UX	480	ug/kg	480	SW846-8270
Phenol	UX	480	ug/kg	480	SW846-8270
Pyrene	UX	480	ug/kg	480	SW846-8270
Pyridine	UX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	9.98	ug/kg	9.98	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

030-001**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030001SA060

Collected: 3/5/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7060	mg/kg		19	SW846-6010B
Antimony	U	8.6	mg/kg		8.6	SW846-6010B
Arsenic		2.36	mg/kg		0.948	SW846-6020
Barium		57.2	mg/kg		2.37	SW846-6010B
Beryllium		0.806	mg/kg		0.474	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium	*N	811	mg/kg		94.8	SW846-6010B
Chromium		8.23	mg/kg		2.37	SW846-6010B
Cobalt	X	11.5	mg/kg		2.37	SW846-6010B
Copper		7.05	mg/kg		2.37	SW846-6020
Iron		16200	mg/kg		19	SW846-6010B
Lead		5.09	mg/kg		0.948	SW846-6020
Magnesium		907	mg/kg		4.74	SW846-6010B
Manganese	N	163	mg/kg		2.37	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel		10.6	mg/kg		4.74	SW846-6010B
Selenium	U	0.948	mg/kg		0.948	SW846-6020
Silver	UX	2.37	mg/kg		2.37	SW846-6010B
Sodium	U	94.8	mg/kg		94.8	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	U	0.948	mg/kg		0.948	SW846-6020
Vanadium		6.82	mg/kg		2.37	SW846-6010B
Zinc	X	35.7	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0216	pCi/g	0.0135	0.0379	RL-7128
Alpha activity		4.38	pCi/g	1.42	1.29	RL-7111
Americium-241	U	-0.0043	pCi/g	0.0024	0.0297	RL-7128
Beta activity		2.41	pCi/g	0.506	1.25	RL-7111
Cesium-137	U	-0.0234	pCi/g	0.0468	0.0461	RL-7124
Cobalt-60	U	0.00143	pCi/g	0.0029	0.0516	RL-7124
Neptunium-237	U	-0.0020	pCi/g	0.0041	0.0401	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0	0.0178	RL-7128
Plutonium-239/240	U	-0.0015	pCi/g	0.0029	0.0172	RL-7128
Technetium-99	U	-0.73	pCi/g	1.2	1.92	RL-7100
Thorium-228		0.339	pCi/g	0.0561	0.095	RL-7128
Thorium-230		0.323	pCi/g	0.0558	0.112	RL-7128
Thorium-232		0.461	pCi/g	0.063	0.0544	RL-7128
Thorium-234		1.26	pCi/g	0.72	0.75	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium		0.651	pCi/g	0.379	0.292	RL-7128
Uranium-234		0.517	pCi/g	0.0562	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.112	pCi/g	0.0325	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	UX	460	ug/kg		460	SW846-8270
2-Chlorophenol	UX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	UX	460	ug/kg		460	SW846-8270
2-Methylphenol	UX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
2-Nitrophenol	UX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	UX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	UX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Nitrophenol	UX	460	ug/kg		460	SW846-8270
Acenaphthene	UX	460	ug/kg		460	SW846-8270
Acenaphthylene	UX	460	ug/kg		460	SW846-8270
Anthracene	UX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	UX	460	ug/kg		460	SW846-8270
Benzenemethanol	UX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	UX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	UX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzoic acid	BX	520	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	UX	460	ug/kg		460	SW846-8270
Chrysene	UX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	UX	460	ug/kg		460	SW846-8270
Dibenzofuran	UX	460	ug/kg		460	SW846-8270
Diethyl phthalate	UX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	UX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	BUX	460	ug/kg		460	SW846-8270
Di-n-octylphthalate	UX	460	ug/kg		460	SW846-8270
Fluoranthene	UX	460	ug/kg		460	SW846-8270
Fluorene	UX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	UX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	UX	460	ug/kg	460	SW846-8270
Hexachloroethane	UX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	460	ug/kg	460	SW846-8270
Isophorone	UX	460	ug/kg	460	SW846-8270
m,p-Cresol	UX	460	ug/kg	460	SW846-8270
Naphthalene	UX	460	ug/kg	460	SW846-8270
Nitrobenzene	UX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	UX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	UX	460	ug/kg	460	SW846-8270
Pentachlorophenol	UX	460	ug/kg	460	SW846-8270
Phenanthrene	UX	460	ug/kg	460	SW846-8270
Phenol	UX	460	ug/kg	460	SW846-8270
Pyrene	UX	460	ug/kg	460	SW846-8270
Pyridine	UX	460	ug/kg	460	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	9.98	ug/kg	9.98	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

030-001**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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030-002

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SA010

Collected: 3/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7430	mg/kg		17.7	SW846-6010B
Antimony	U	9.36	mg/kg		9.36	SW846-6010B
Arsenic		2.09	mg/kg		0.885	SW846-6020
Barium		55.5	mg/kg		2.21	SW846-6010B
Beryllium	U	0.442	mg/kg		0.442	SW846-6010B
Cadmium	U	1.77	mg/kg		1.77	SW846-6010B
Calcium	*N	1530	mg/kg		88.5	SW846-6010B
Chromium		13.4	mg/kg		2.21	SW846-6010B
Cobalt	X	2.27	mg/kg		2.21	SW846-6010B
Copper		9.66	mg/kg		2.21	SW846-6020
Iron		8960	mg/kg		17.7	SW846-6010B
Lead		6	mg/kg		0.885	SW846-6020
Magnesium		1430	mg/kg		4.42	SW846-6010B
Manganese	N	69.4	mg/kg		2.21	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.21	mg/kg		2.21	SW846-6010B
Nickel		12	mg/kg		4.42	SW846-6010B
Selenium	U	0.885	mg/kg		0.885	SW846-6020
Silver	UX	2.21	mg/kg		2.21	SW846-6010B
Sodium		154	mg/kg		88.5	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium		1.07	mg/kg		0.885	SW846-6020
Vanadium		5.41	mg/kg		2.21	SW846-6010B
Zinc	X	25.1	mg/kg		17.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0322	pCi/g	0.0165	0.0373	RL-7128
Alpha activity		3.44	pCi/g	1.15	1.09	RL-7111
Americium-241	U	-0.0016	pCi/g	0.0031	0.0295	RL-7128
Beta activity		3.02	pCi/g	0.587	1.19	RL-7111
Cesium-137	U	-0.0224	pCi/g	0.0448	0.0481	RL-7124
Cobalt-60	U	0.00261	pCi/g	0.0052	0.0466	RL-7124
Neptunium-237	U	0.008	pCi/g	0.0108	0.0412	RL-7128
Plutonium-238	U	-0.0043	pCi/g	0.0034	0.019	RL-7128
Plutonium-239/240	U	0.00333	pCi/g	0.0062	0.018	RL-7128
Technetium-99	U	-0.653	pCi/g	1.21	1.92	RL-7100
Thorium-228		0.393	pCi/g	0.0646	0.0956	RL-7128
Thorium-230		0.445	pCi/g	0.0689	0.114	RL-7128
Thorium-232		0.445	pCi/g	0.0665	0.0558	RL-7128
Thorium-234		2.88	pCi/g	0.884	0.649	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium		1.02	pCi/g	0.502	0.292	RL-7128
Uranium-234		0.592	pCi/g	0.0625	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.397	pCi/g	0.0519	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	UX	470	ug/kg		470	SW846-8270
2-Chlorophenol	UX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	UX	470	ug/kg		470	SW846-8270
2-Methylphenol	UX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
2-Nitrophenol	UX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	UX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	UX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	UX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	UX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	UX	470	ug/kg		470	SW846-8270
4-Nitrophenol	UX	470	ug/kg		470	SW846-8270
Acenaphthene	UX	470	ug/kg		470	SW846-8270
Acenaphthylene	UX	470	ug/kg		470	SW846-8270
Anthracene	UX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	UX	470	ug/kg		470	SW846-8270
Benzenemethanol	UX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	UX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	UX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	UX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	UX	470	ug/kg		470	SW846-8270
Benzoic acid	BUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	UX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	UX	470	ug/kg		470	SW846-8270
Chrysene	UX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	UX	470	ug/kg		470	SW846-8270
Dibenzofuran	UX	470	ug/kg		470	SW846-8270
Diethyl phthalate	UX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	UX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BX	860	ug/kg		470	SW846-8270
Di-n-octylphthalate	UX	470	ug/kg		470	SW846-8270
Fluoranthene	UX	470	ug/kg		470	SW846-8270
Fluorene	UX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	UX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	UX	470	ug/kg	470	SW846-8270
Hexachloroethane	UX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	470	ug/kg	470	SW846-8270
Isophorone	UX	470	ug/kg	470	SW846-8270
m,p-Cresol	UX	470	ug/kg	470	SW846-8270
Naphthalene	UX	470	ug/kg	470	SW846-8270
Nitrobenzene	UX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	UX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	UX	470	ug/kg	470	SW846-8270
Pentachlorophenol	UX	470	ug/kg	470	SW846-8270
Phenanthrene	UX	470	ug/kg	470	SW846-8270
Phenol	UX	470	ug/kg	470	SW846-8270
Pyrene	UX	470	ug/kg	470	SW846-8270
Pyridine	UX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,1,1-Trichloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,1,2-Trichloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,1-Dichloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,1-Dichloroethene	U	5.05	ug/kg	5.05	SW846-8260
1,2,3-Trichloropropane	U	5.05	ug/kg	5.05	SW846-8260
1,2-Dibromoethane	U	5.05	ug/kg	5.05	SW846-8260
1,2-Dichloroethane	U	5.05	ug/kg	5.05	SW846-8260
1,2-Dichloropropane	U	5.05	ug/kg	5.05	SW846-8260
1,2-Dimethylbenzene	U	5.05	ug/kg	5.05	SW846-8260
2-Butanone	U	5.05	ug/kg	5.05	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.05	ug/kg	5.05	SW846-8260
4-Methyl-2-pentanone	U	5.05	ug/kg	5.05	SW846-8260
Acetone	J	6.41	ug/kg	5.05	SW846-8260
Acrolein	JU	5.05	ug/kg	5.05	SW846-8260
Acrylonitrile	U	5.05	ug/kg	5.05	SW846-8260
Benzene	U	5.05	ug/kg	5.05	SW846-8260
Bromodichloromethane	U	5.05	ug/kg	5.05	SW846-8260
Bromoform	U	5.05	ug/kg	5.05	SW846-8260
Bromomethane	U	5.05	ug/kg	5.05	SW846-8260
Carbon disulfide	U	5.05	ug/kg	5.05	SW846-8260
Carbon tetrachloride	U	5.05	ug/kg	5.05	SW846-8260
Chlorobenzene	U	5.05	ug/kg	5.05	SW846-8260
Chloroethane	U	5.05	ug/kg	5.05	SW846-8260
Chloroform	U	5.05	ug/kg	5.05	SW846-8260
Chloromethane	U	5.05	ug/kg	5.05	SW846-8260
cis-1,2-Dichloroethene	U	5.05	ug/kg	5.05	SW846-8260
cis-1,3-Dichloropropene	U	5.05	ug/kg	5.05	SW846-8260
Dibromochloromethane	U	5.05	ug/kg	5.05	SW846-8260
Dibromomethane	U	5.05	ug/kg	5.05	SW846-8260
Dichlorodifluoromethane	JU	5.05	ug/kg	5.05	SW846-8260
Ethyl methacrylate	U	5.05	ug/kg	5.05	SW846-8260
Ethylbenzene	U	5.05	ug/kg	5.05	SW846-8260
Iodomethane	U	5.05	ug/kg	5.05	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.05	ug/kg	5.05	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	5.05	ug/kg	5.05	SW846-8260
Tetrachloroethene	U	5.05	ug/kg	5.05	SW846-8260
Toluene	U	5.05	ug/kg	5.05	SW846-8260
trans-1,2-Dichloroethene	U	5.05	ug/kg	5.05	SW846-8260
trans-1,3-Dichloropropene	U	5.05	ug/kg	5.05	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.05	ug/kg	5.05	SW846-8260
Trichloroethene	U	5.05	ug/kg	5.05	SW846-8260
Trichlorofluoromethane	U	5.05	ug/kg	5.05	SW846-8260
Vinyl acetate	U	5.05	ug/kg	5.05	SW846-8260
Vinyl chloride	U	5.05	ug/kg	5.05	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SA015

Collected: 3/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8190	mg/kg		17	SW846-6010B
Antimony	U	9.81	mg/kg		9.81	SW846-6010B
Arsenic		1.43	mg/kg		0.852	SW846-6020
Barium		54.5	mg/kg		2.13	SW846-6010B
Beryllium	U	0.426	mg/kg		0.426	SW846-6010B
Cadmium	U	1.7	mg/kg		1.7	SW846-6010B
Calcium	*N	1040	mg/kg		85.2	SW846-6010B
Chromium		12.3	mg/kg		2.13	SW846-6010B
Cobalt	X	2.66	mg/kg		2.13	SW846-6010B
Copper		4.79	mg/kg		2.13	SW846-6020
Iron		7690	mg/kg		17	SW846-6010B
Lead		6.67	mg/kg		0.852	SW846-6020
Magnesium		917	mg/kg		4.26	SW846-6010B
Manganese	N	62.2	mg/kg		2.13	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.13	mg/kg		2.13	SW846-6010B
Nickel		6.14	mg/kg		4.26	SW846-6010B
Selenium	U	0.852	mg/kg		0.852	SW846-6020
Silver	UX	2.13	mg/kg		2.13	SW846-6010B
Sodium		154	mg/kg		85.2	SW846-6010B
Thallium	U	1.7	mg/kg		1.7	SW846-6020
Uranium	U	0.852	mg/kg		0.852	SW846-6020
Vanadium		3.82	mg/kg		2.13	SW846-6010B
Zinc	UX	17	mg/kg		17	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0002	pCi/g	0.0052	0.0376	RL-7128
Alpha activity		4.2	pCi/g	1.27	1.06	RL-7111
Americium-241	U	0.00143	pCi/g	0.0053	0.0302	RL-7128
Beta activity		3.52	pCi/g	0.651	1.18	RL-7111
Cesium-137	U	0.00746	pCi/g	0.0149	0.0487	RL-7124
Cobalt-60	U	-0.0014	pCi/g	0.0027	0.0405	RL-7124
Neptunium-237	U	0.00807	pCi/g	0.0085	0.0398	RL-7128
Plutonium-238	U	-7E-05	pCi/g	0.0036	0.0184	RL-7128
Plutonium-239/240	U	-0.0014	pCi/g	0.003	0.0187	RL-7128
Technetium-99	U	-0.428	pCi/g	1.22	1.92	RL-7100
Thorium-228		0.412	pCi/g	0.0762	0.0994	RL-7128
Thorium-230		0.235	pCi/g	0.0625	0.119	RL-7128
Thorium-232		0.321	pCi/g	0.0668	0.0635	RL-7128
Thorium-234	U	0.936	pCi/g	1.87	0.813	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.0649	pCi/g	0.131	0.293	RL-7128
Uranium-234	U	0.0419	pCi/g	0.029	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0232	pCi/g	0.0262	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JU	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JU	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JU	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JU	480	ug/kg		480	SW846-8270
2-Chlorophenol	JU	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JU	480	ug/kg		480	SW846-8270
2-Methylphenol	JU	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
2-Nitrophenol	JU	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JU	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JU	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JU	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JU	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Nitrophenol	JU	480	ug/kg		480	SW846-8270
Acenaphthene	JU	480	ug/kg		480	SW846-8270
Acenaphthylene	JU	480	ug/kg		480	SW846-8270
Anthracene	JU	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JU	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JU	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JU	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JU	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JU	480	ug/kg		480	SW846-8270
Benzoic acid	J	490	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JU	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JU	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JU	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JU	480	ug/kg		480	SW846-8270
Chrysene	JU	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JU	480	ug/kg		480	SW846-8270
Dibenzofuran	JU	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JU	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJ	880	ug/kg		480	SW846-8270
Di-n-octylphthalate	JU	480	ug/kg		480	SW846-8270
Fluoranthene	JU	480	ug/kg		480	SW846-8270
Fluorene	JU	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	JU	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JU	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JU	480	ug/kg	480	SW846-8270
Hexachloroethane	JU	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	480	ug/kg	480	SW846-8270
Isophorone	JU	480	ug/kg	480	SW846-8270
m,p-Cresol	JU	480	ug/kg	480	SW846-8270
Naphthalene	JU	480	ug/kg	480	SW846-8270
Nitrobenzene	JU	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JU	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JU	480	ug/kg	480	SW846-8270
Pentachlorophenol	JU	480	ug/kg	480	SW846-8270
Phenanthrene	JU	480	ug/kg	480	SW846-8270
Phenol	JU	480	ug/kg	480	SW846-8270
Pyrene	JU	480	ug/kg	480	SW846-8270
Pyridine	JU	480	ug/kg	480	SW846-8270
VOA					
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	U	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	9.94	ug/kg	9.94	SW846-8260
2-Hexanone	U	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	JU	4.97	ug/kg	4.97	SW846-8260
Acrolein	JU	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	U	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SA030

Collected: 3/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6070	mg/kg		18.6	SW846-6010B
Antimony	U	9.24	mg/kg		9.24	SW846-6010B
Arsenic		0.954	mg/kg		0.931	SW846-6020
Barium		31.9	mg/kg		2.33	SW846-6010B
Beryllium	BU	0.465	mg/kg		0.465	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium		1030	mg/kg		93.1	SW846-6010B
Chromium		7.05	mg/kg		2.33	SW846-6010B
Cobalt	U	2.33	mg/kg		2.33	SW846-6010B
Copper		2.57	mg/kg		2.33	SW846-6020
Iron		7900	mg/kg		18.6	SW846-6010B
Lead		4.27	mg/kg		0.931	SW846-6020
Magnesium		526	mg/kg		4.65	SW846-6010B
Manganese		15.6	mg/kg		2.33	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel	U	4.65	mg/kg		4.65	SW846-6010B
Selenium	U	0.931	mg/kg		0.931	SW846-6020
Silver	U	2.33	mg/kg		2.33	SW846-6010B
Sodium	UX	93.1	mg/kg		93.1	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	U	0.931	mg/kg		0.931	SW846-6020
Vanadium		6.38	mg/kg		2.33	SW846-6010B
Zinc	UX	18.6	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0113	pCi/g	0.0115	0.0382	RL-7128
Alpha activity		3.35	pCi/g	1.09	0.979	RL-7111
Americium-241	U	0.00155	pCi/g	0.0054	0.0298	RL-7128
Beta activity		1.93	pCi/g	0.417	1.13	RL-7111
Cesium-137	U	-0.0095	pCi/g	0.0191	0.048	RL-7124
Cobalt-60	U	-0.009	pCi/g	0.0179	0.0333	RL-7124
Neptunium-237	U	-0.0024	pCi/g	0.0049	0.0438	RL-7128
Plutonium-238	U	0.00155	pCi/g	0.0049	0.0189	RL-7128
Plutonium-239/240	U	0.00225	pCi/g	0.006	0.019	RL-7128
Technetium-99	U	-0.85	pCi/g	1.21	1.92	RL-7100
Thorium-228	T	0.181	pCi/g	0.0837	0.123	RL-7128
Thorium-230	UT	0.119	pCi/g	0.0747	0.138	RL-7128
Thorium-232	T	0.203	pCi/g	0.0925	0.0961	RL-7128
Thorium-234		1.58	pCi/g	0.656	0.596	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.218	pCi/g	0.186	0.294	RL-7128
Uranium-234	U	0.13	pCi/g	0.0386	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0767	pCi/g	0.0324	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	UX	490	ug/kg		490	SW846-8270
2-Chlorophenol	UX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	UX	490	ug/kg		490	SW846-8270
2-Methylphenol	UX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
2-Nitrophenol	UX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	UX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	UX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Nitrophenol	UX	490	ug/kg		490	SW846-8270
Acenaphthene	UX	490	ug/kg		490	SW846-8270
Acenaphthylene	UX	490	ug/kg		490	SW846-8270
Anthracene	UX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	UX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	UX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	UX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzoic acid	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	UX	490	ug/kg		490	SW846-8270
Chrysene	UX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	UX	490	ug/kg		490	SW846-8270
Dibenzofuran	UX	490	ug/kg		490	SW846-8270
Diethyl phthalate	UX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	UX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BX	890	ug/kg		490	SW846-8270
Di-n-octylphthalate	UX	490	ug/kg		490	SW846-8270
Fluoranthene	UX	490	ug/kg		490	SW846-8270
Fluorene	UX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	UX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	UX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	490	ug/kg	490	SW846-8270
Isophorone	UX	490	ug/kg	490	SW846-8270
m,p-Cresol	UX	490	ug/kg	490	SW846-8270
Naphthalene	UX	490	ug/kg	490	SW846-8270
Nitrobenzene	UX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	UX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	UX	490	ug/kg	490	SW846-8270
Pentachlorophenol	UX	490	ug/kg	490	SW846-8270
Phenanthrene	UX	490	ug/kg	490	SW846-8270
Phenol	UX	490	ug/kg	490	SW846-8270
Pyrene	UX	490	ug/kg	490	SW846-8270
Pyridine	UX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	U	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	9.99	ug/kg	9.99	SW846-8260
2-Hexanone	U	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	JU	5	ug/kg	5	SW846-8260
Acrolein	JU	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	U	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	9.99	ug/kg	9.99	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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030-002

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SA045

Collected: 3/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8750	mg/kg		20	SW846-6010B
Antimony	U	9.05	mg/kg		9.05	SW846-6010B
Arsenic		3.51	mg/kg		0.999	SW846-6020
Barium		67.3	mg/kg		2.5	SW846-6010B
Beryllium		0.909	mg/kg		0.5	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		1610	mg/kg		99.9	SW846-6010B
Chromium		17.2	mg/kg		2.5	SW846-6010B
Cobalt		3.57	mg/kg		2.5	SW846-6010B
Copper		10.2	mg/kg		2.5	SW846-6020
Iron		22200	mg/kg		20	SW846-6010B
Lead		8.08	mg/kg		0.999	SW846-6020
Magnesium		1620	mg/kg		5	SW846-6010B
Manganese		73.1	mg/kg		2.5	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel		12.4	mg/kg		5	SW846-6010B
Selenium	U	0.999	mg/kg		0.999	SW846-6020
Silver	U	2.5	mg/kg		2.5	SW846-6010B
Sodium	UX	99.9	mg/kg		99.9	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium		1.79	mg/kg		0.999	SW846-6020
Vanadium		9.32	mg/kg		2.5	SW846-6010B
Zinc	X	47	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00793	pCi/g	0.0123	0.0381	RL-7128
Alpha activity		5.12	pCi/g	1.45	1.14	RL-7111
Americium-241	U	-0.0015	pCi/g	0.0033	0.0299	RL-7128
Beta activity		5.06	pCi/g	0.838	1.21	RL-7111
Cesium-137	U	-0.0161	pCi/g	0.0323	0.059	RL-7124
Cobalt-60	U	-0.0087	pCi/g	0.0174	0.0505	RL-7124
Neptunium-237	U	0.00186	pCi/g	0.0037	0.041	RL-7128
Plutonium-238	U	-0.0044	pCi/g	0.0036	0.0189	RL-7128
Plutonium-239/240	U	-0.0025	pCi/g	0.0007	0.0183	RL-7128
Technetium-99	U	-0.52	pCi/g	1.22	1.92	RL-7100
Thorium-228		0.366	pCi/g	0.0714	0.0982	RL-7128
Thorium-230		0.374	pCi/g	0.0717	0.117	RL-7128
Thorium-232		0.396	pCi/g	0.0717	0.0603	RL-7128
Thorium-234	U	1.07	pCi/g	2.13	1.02	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.359	pCi/g	0.418	0.293	RL-7128
Uranium-234		0.203	pCi/g	0.0425	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.149	pCi/g	0.0379	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	UX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	UX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	UX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	UX	460	ug/kg		460	SW846-8270
2-Chlorophenol	UX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	UX	460	ug/kg		460	SW846-8270
2-Methylphenol	UX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
2-Nitrophenol	UX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	UX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	UX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	UX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	UX	460	ug/kg		460	SW846-8270
4-Nitrophenol	UX	460	ug/kg		460	SW846-8270
Acenaphthene	UX	460	ug/kg		460	SW846-8270
Acenaphthylene	UX	460	ug/kg		460	SW846-8270
Anthracene	UX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	UX	460	ug/kg		460	SW846-8270
Benzenemethanol	JUX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	UX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	UX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	UX	460	ug/kg		460	SW846-8270
Benzoic acid	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	UX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	UX	460	ug/kg		460	SW846-8270
Chrysene	UX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	UX	460	ug/kg		460	SW846-8270
Dibenzofuran	UX	460	ug/kg		460	SW846-8270
Diethyl phthalate	UX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	UX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	BX	1400	ug/kg		460	SW846-8270
Di-n-octylphthalate	UX	460	ug/kg		460	SW846-8270
Fluoranthene	UX	460	ug/kg		460	SW846-8270
Fluorene	UX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	UX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	JUX	460	ug/kg	460	SW846-8270
Hexachloroethane	UX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	460	ug/kg	460	SW846-8270
Isophorone	UX	460	ug/kg	460	SW846-8270
m,p-Cresol	UX	460	ug/kg	460	SW846-8270
Naphthalene	UX	460	ug/kg	460	SW846-8270
Nitrobenzene	UX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	UX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	UX	460	ug/kg	460	SW846-8270
Pentachlorophenol	UX	460	ug/kg	460	SW846-8270
Phenanthrene	UX	460	ug/kg	460	SW846-8270
Phenol	UX	460	ug/kg	460	SW846-8270
Pyrene	UX	460	ug/kg	460	SW846-8270
Pyridine	UX	460	ug/kg	460	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	9.97	ug/kg	9.97	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SA060

Collected: 3/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6610	mg/kg		19.6	SW846-6010B
Antimony	U	9.99	mg/kg		9.99	SW846-6010B
Arsenic		3.76	mg/kg		0.978	SW846-6020
Barium		39.2	mg/kg		2.45	SW846-6010B
Beryllium		1.48	mg/kg		0.489	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium		1120	mg/kg		97.8	SW846-6010B
Chromium		9.86	mg/kg		2.45	SW846-6010B
Cobalt		4.73	mg/kg		2.45	SW846-6010B
Copper		8.27	mg/kg		2.45	SW846-6020
Iron		21600	mg/kg		19.6	SW846-6010B
Lead		4.89	mg/kg		0.978	SW846-6020
Magnesium		1020	mg/kg		4.89	SW846-6010B
Manganese		72.3	mg/kg		2.45	SW846-6010B
Mercury		0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel		14.7	mg/kg		4.89	SW846-6010B
Selenium	U	0.978	mg/kg		0.978	SW846-6020
Silver	U	2.45	mg/kg		2.45	SW846-6010B
Sodium	UX	97.8	mg/kg		97.8	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium	U	0.978	mg/kg		0.978	SW846-6020
Vanadium		17.6	mg/kg		2.45	SW846-6010B
Zinc	X	41.4	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0107	pCi/g	0.0096	0.0372	RL-7128
Alpha activity		3.17	pCi/g	1.07	1.04	RL-7111
Americium-241	U	0.00352	pCi/g	0.0066	0.0312	RL-7128
Beta activity		3.01	pCi/g	0.583	1.17	RL-7111
Cesium-137	U	0.0126	pCi/g	0.0252	0.0584	RL-7124
Cobalt-60	U	0.00664	pCi/g	0.0133	0.0574	RL-7124
Neptunium-237	U	0.00247	pCi/g	0.005	0.0396	RL-7128
Plutonium-238	U	-0.0012	pCi/g	0.0013	0.0184	RL-7128
Plutonium-239/240	U	0.00038	pCi/g	0.0056	0.0176	RL-7128
Technetium-99	U	-0.773	pCi/g	1.21	1.92	RL-7100
Thorium-228		0.546	pCi/g	0.0808	0.0971	RL-7128
Thorium-230		0.314	pCi/g	0.0632	0.115	RL-7128
Thorium-232		0.509	pCi/g	0.0769	0.0561	RL-7128
Thorium-234	U	1.36	pCi/g	2.72	0.961	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.188	pCi/g	0.141	0.292	RL-7128
Uranium-234	U	0.112	pCi/g	0.0341	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0646	pCi/g	0.0292	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	UX	480	ug/kg		480	SW846-8270
2-Chlorophenol	UX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	UX	480	ug/kg		480	SW846-8270
2-Methylphenol	UX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
2-Nitrophenol	UX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	UX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	UX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Nitrophenol	UX	480	ug/kg		480	SW846-8270
Acenaphthene	UX	480	ug/kg		480	SW846-8270
Acenaphthylene	UX	480	ug/kg		480	SW846-8270
Anthracene	UX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	UX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	UX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	UX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzoic acid	X	500	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	UX	480	ug/kg		480	SW846-8270
Chrysene	UX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	UX	480	ug/kg		480	SW846-8270
Dibenzofuran	UX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	UX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BX	1100	ug/kg		480	SW846-8270
Di-n-octylphthalate	UX	480	ug/kg		480	SW846-8270
Fluoranthene	UX	480	ug/kg		480	SW846-8270
Fluorene	UX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	480 ug/kg	480	SW846-8270
Hexachlorobutadiene	UX	480 ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480 ug/kg	480	SW846-8270
Hexachloroethane	UX	480 ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	480 ug/kg	480	SW846-8270
Isophorone	UX	480 ug/kg	480	SW846-8270
m,p-Cresol	UX	480 ug/kg	480	SW846-8270
Naphthalene	UX	480 ug/kg	480	SW846-8270
Nitrobenzene	UX	480 ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	UX	480 ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	UX	480 ug/kg	480	SW846-8270
Pentachlorophenol	UX	480 ug/kg	480	SW846-8270
Phenanthrene	UX	480 ug/kg	480	SW846-8270
Phenol	UX	480 ug/kg	480	SW846-8270
Pyrene	UX	480 ug/kg	480	SW846-8270
Pyridine	UX	480 ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,1-Dichloroethene		5 ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99 ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99 ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99 ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99 ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99 ug/kg	4.99	SW846-8260
2-Butanone	U	4.99 ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	9.99 ug/kg	9.99	SW846-8260
2-Hexanone	U	4.99 ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99 ug/kg	4.99	SW846-8260
Acetone	JU	4.99 ug/kg	4.99	SW846-8260
Acrolein	JU	4.99 ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99 ug/kg	4.99	SW846-8260
Benzene	U	4.99 ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99 ug/kg	4.99	SW846-8260
Bromoform	U	4.99 ug/kg	4.99	SW846-8260
Bromomethane	U	4.99 ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99 ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99 ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99 ug/kg	4.99	SW846-8260
Chloroethane	U	4.99 ug/kg	4.99	SW846-8260
Chloroform	U	4.99 ug/kg	4.99	SW846-8260
Chloromethane	U	4.99 ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99 ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99 ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99 ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99 ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99 ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99 ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99 ug/kg	4.99	SW846-8260
Iodomethane	U	4.99 ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.99 ug/kg	9.99	SW846-8260
Methylene chloride	U	4.99 ug/kg	4.99	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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030-002

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

030002SD045

Collected: 3/6/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6630	mg/kg		18.5	SW846-6010B
Antimony	U	9.47	mg/kg		9.47	SW846-6010B
Arsenic		2.92	mg/kg		0.925	SW846-6020
Barium		56.2	mg/kg		2.31	SW846-6010B
Beryllium		0.906	mg/kg		0.462	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium		1770	mg/kg		92.5	SW846-6010B
Chromium		14.3	mg/kg		2.31	SW846-6010B
Cobalt		2.64	mg/kg		2.31	SW846-6010B
Copper		8.4	mg/kg		2.31	SW846-6020
Iron		19200	mg/kg		18.5	SW846-6010B
Lead		5.26	mg/kg		0.925	SW846-6020
Magnesium		1160	mg/kg		4.62	SW846-6010B
Manganese		62	mg/kg		2.31	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel		10.6	mg/kg		4.62	SW846-6010B
Selenium	U	0.925	mg/kg		0.925	SW846-6020
Silver	U	2.31	mg/kg		2.31	SW846-6010B
Sodium	UX	92.5	mg/kg		92.5	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium		1.51	mg/kg		0.925	SW846-6020
Vanadium		7	mg/kg		2.31	SW846-6010B
Zinc	X	32.6	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0006	pCi/g	0.0045	0.0382	RL-7128
Alpha activity		4.81	pCi/g	1.35	1.02	RL-7111
Americium-241	U	0.00051	pCi/g	0.0062	0.0297	RL-7128
Beta activity		2.88	pCi/g	0.563	1.15	RL-7111
Cesium-137	U	0.00591	pCi/g	0.0118	0.0537	RL-7124
Cobalt-60	U	0.0099	pCi/g	0.0198	0.0523	RL-7124
Neptunium-237	U	0.00698	pCi/g	0.0099	0.0415	RL-7128
Plutonium-238	U	-0.0001	pCi/g	0.0035	0.0191	RL-7128
Plutonium-239/240	U	-0.0029	pCi/g	0	0.0202	RL-7128
Technetium-99	U	-0.204	pCi/g	1.23	1.92	RL-7100
Thorium-228		0.43	pCi/g	0.0791	0.0998	RL-7128
Thorium-230		0.276	pCi/g	0.0662	0.115	RL-7128
Thorium-232		0.432	pCi/g	0.0778	0.0599	RL-7128
Thorium-234		2.27	pCi/g	0.8	0.812	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Uranium	U	0.29	pCi/g	0.584	0.294	RL-7128
Uranium-234		0.155	pCi/g	0.0393	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.135	pCi/g	0.0363	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	UX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	UX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	UX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	UX	490	ug/kg		490	SW846-8270
2-Chlorophenol	UX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	UX	490	ug/kg		490	SW846-8270
2-Methylphenol	UX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
2-Nitrophenol	UX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	UX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	UX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	UX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	UX	490	ug/kg		490	SW846-8270
4-Nitrophenol	UX	490	ug/kg		490	SW846-8270
Acenaphthene	UX	490	ug/kg		490	SW846-8270
Acenaphthylene	UX	490	ug/kg		490	SW846-8270
Anthracene	UX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	UX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	UX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	UX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	UX	490	ug/kg		490	SW846-8270
Benzoic acid	X	500	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	UX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	UX	490	ug/kg		490	SW846-8270
Chrysene	UX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	UX	490	ug/kg		490	SW846-8270
Dibenzofuran	UX	490	ug/kg		490	SW846-8270
Diethyl phthalate	UX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	UX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BX	900	ug/kg		490	SW846-8270
Di-n-octylphthalate	UX	490	ug/kg		490	SW846-8270
Fluoranthene	UX	490	ug/kg		490	SW846-8270
Fluorene	UX	490	ug/kg		490	SW846-8270

030-002

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1

Hexachlorobenzene	UX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	UX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	UX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	490	ug/kg	490	SW846-8270
Isophorone	UX	490	ug/kg	490	SW846-8270
m,p-Cresol	UX	490	ug/kg	490	SW846-8270
Naphthalene	UX	490	ug/kg	490	SW846-8270
Nitrobenzene	UX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	UX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	UX	490	ug/kg	490	SW846-8270
Pentachlorophenol	UX	490	ug/kg	490	SW846-8270
Phenanthrene	UX	490	ug/kg	490	SW846-8270
Phenol	UX	490	ug/kg	490	SW846-8270
Pyrene	UX	490	ug/kg	490	SW846-8270
Pyridine	UX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	U	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	10	ug/kg	10	SW846-8260
2-Hexanone	U	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	JU	5.02	ug/kg	5.02	SW846-8260
Acrolein	JU	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

030-002**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB1**

Styrene	U	5.02	ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg	5.02	SW846-8260
Toluene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg	5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg	5.02	SW846-8260

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030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003SA010

Collected: 3/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8920	mg/kg		19.3	SW846-6010B
Antimony	U	9.76	mg/kg		9.76	SW846-6010B
Arsenic		3.59	mg/kg		0.965	SW846-6020
Barium		105	mg/kg		2.41	SW846-6010B
Beryllium	BU	0.483	mg/kg		0.483	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium		674	mg/kg		96.5	SW846-6010B
Chromium		11.9	mg/kg		2.41	SW846-6010B
Cobalt		5.93	mg/kg		2.41	SW846-6010B
Copper		11.4	mg/kg		2.41	SW846-6020
Iron		13100	mg/kg		19.3	SW846-6010B
Lead		8.13	mg/kg		0.965	SW846-6020
Magnesium		1090	mg/kg		4.83	SW846-6010B
Manganese		188	mg/kg		2.41	SW846-6010B
Mercury		0.026	mg/kg		0.018	SW846-7471
Molybdenum	U	2.41	mg/kg		2.41	SW846-6010B
Nickel		12.9	mg/kg		4.83	SW846-6010B
Selenium	U	0.965	mg/kg		0.965	SW846-6020
Silver	U	2.41	mg/kg		2.41	SW846-6010B
Sodium	X	178	mg/kg		96.5	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium		1.17	mg/kg		0.965	SW846-6020
Vanadium		5.66	mg/kg		2.41	SW846-6010B
Zinc	X	33.1	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00978	pCi/g	0.0092	0.0379	RL-7128
Alpha activity		14	pCi/g	3.34	2.45	RL-7111
Americium-241	U	-0.0025	pCi/g	0.0041	0.03	RL-7128
Beta activity		7.79	pCi/g	1.08	1.72	RL-7111
Cesium-137	U	-0.0223	pCi/g	0.0445	0.0582	RL-7124
Cobalt-60	U	0.00252	pCi/g	0.0050	0.0493	RL-7124
Neptunium-237	U	0.00185	pCi/g	0.0054	0.0407	RL-7128
Plutonium-238	U	0.001	pCi/g	0.0045	0.0171	RL-7128
Plutonium-239/240	U	0.00469	pCi/g	0.0055	0.0176	RL-7128
Technetium-99	U	0.456	pCi/g	1.1	1.71	RL-7100
Thorium-228		0.334	pCi/g	0.053	0.0952	RL-7128
Thorium-230		0.311	pCi/g	0.057	0.234	RL-7128
Thorium-232		0.299	pCi/g	0.0528	0.17	RL-7128
Thorium-234	U	1.37	pCi/g	2.74	0.912	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.23	pCi/g	0.182	0.297	RL-7128
Uranium-234	U	0.102	pCi/g	0.0343	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.118	pCi/g	0.0344	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JU	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JU	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JU	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JU	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JU	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JU	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JU	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JU	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JU	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JU	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JU	490	ug/kg		490	SW846-8270
2-Chlorophenol	JU	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JU	490	ug/kg		490	SW846-8270
2-Methylphenol	JU	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JU	490	ug/kg		490	SW846-8270
2-Nitrophenol	JU	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JU	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JU	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JU	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JU	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JU	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JU	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JU	490	ug/kg		490	SW846-8270
4-Nitrophenol	JU	490	ug/kg		490	SW846-8270
Acenaphthene	JU	490	ug/kg		490	SW846-8270
Acenaphthylene	JU	490	ug/kg		490	SW846-8270
Anthracene	JU	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JU	490	ug/kg		490	SW846-8270
Benzenemethanol	JU	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JU	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JU	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JU	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JU	490	ug/kg		490	SW846-8270
Benzoic acid	JU	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JU	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JU	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JU	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JU	490	ug/kg		490	SW846-8270
Chrysene	JU	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JU	490	ug/kg		490	SW846-8270
Dibenzofuran	JU	490	ug/kg		490	SW846-8270
Diethyl phthalate	JU	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JU	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJ	640	ug/kg		490	SW846-8270
Di-n-octylphthalate	JU	490	ug/kg		490	SW846-8270
Fluoranthene	JU	490	ug/kg		490	SW846-8270
Fluorene	JU	490	ug/kg		490	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JU	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JU	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JU	490	ug/kg	490	SW846-8270
Hexachloroethane	JU	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	490	ug/kg	490	SW846-8270
Isophorone	JU	490	ug/kg	490	SW846-8270
m,p-Cresol	JU	490	ug/kg	490	SW846-8270
Naphthalene	JU	490	ug/kg	490	SW846-8270
Nitrobenzene	JU	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JU	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JU	490	ug/kg	490	SW846-8270
Pentachlorophenol	JU	490	ug/kg	490	SW846-8270
Phenanthrene	JU	490	ug/kg	490	SW846-8270
Phenol	JU	490	ug/kg	490	SW846-8270
Pyrene	JU	490	ug/kg	490	SW846-8270
Pyridine	JU	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	9.98	ug/kg	9.98	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	J	9.73	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003SA015

Collected: 3/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4420	mg/kg		17.6	SW846-6010B
Antimony	U	9.83	mg/kg		9.83	SW846-6010B
Arsenic		4.03	mg/kg		0.882	SW846-6020
Barium		116	mg/kg		2.21	SW846-6010B
Beryllium	BU	0.441	mg/kg		0.441	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium		1160	mg/kg		88.2	SW846-6010B
Chromium		8.65	mg/kg		2.21	SW846-6010B
Cobalt		2.9	mg/kg		2.21	SW846-6010B
Copper		18.9	mg/kg		5.51	SW846-6020
Iron		11300	mg/kg		17.6	SW846-6010B
Lead		6.61	mg/kg		0.882	SW846-6020
Magnesium		1140	mg/kg		4.41	SW846-6010B
Manganese		92.9	mg/kg		2.21	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.21	mg/kg		2.21	SW846-6010B
Nickel		14.9	mg/kg		4.41	SW846-6010B
Selenium	U	0.882	mg/kg		0.882	SW846-6020
Silver	U	2.21	mg/kg		2.21	SW846-6010B
Sodium	X	162	mg/kg		88.2	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium		1.05	mg/kg		0.882	SW846-6020
Vanadium		10.4	mg/kg		2.21	SW846-6010B
Zinc	X	29.7	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235		0.0852	pCi/g	0.0241	0.037	RL-7128
Alpha activity		6.33	pCi/g	1.79	1.57	RL-7111
Americium-241	U	0.0005	pCi/g	0.0059	0.03	RL-7128
Beta activity		4.19	pCi/g	0.691	1.58	RL-7111
Cesium-137	U	-0.0111	pCi/g	0.0221	0.0522	RL-7124
Cobalt-60	U	-0.0065	pCi/g	0.013	0.0618	RL-7124
Neptunium-237	U	0.0006	pCi/g	0.0029	0.0413	RL-7128
Plutonium-238	U	0.00096	pCi/g	0.0045	0.0167	RL-7128
Plutonium-239/240	U	0.00342	pCi/g	0.006	0.0172	RL-7128
Technetium-99	U	0.437	pCi/g	1.1	1.71	RL-7100
Thorium-228		0.378	pCi/g	0.0711	0.0992	RL-7128
Thorium-230		0.301	pCi/g	0.0724	0.238	RL-7128
Thorium-232		0.3	pCi/g	0.0663	0.174	RL-7128
Thorium-234	U	2.11	pCi/g	4.22	0.957	RL-7124

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium		2.97	pCi/g	0.881	0.296	RL-7128
Uranium-234		2.46	pCi/g	0.115	0.131	RL-7128
Uranium-235		3.03	wt %	0.925		RL-7128
Uranium-238		0.424	pCi/g	0.0517	0.128	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JU	470	ug/kg		470	SW846-8270
2-Chlorophenol	JU	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JU	470	ug/kg		470	SW846-8270
2-Methylphenol	JU	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
2-Nitrophenol	JU	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JU	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JU	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Nitrophenol	JU	470	ug/kg		470	SW846-8270
Acenaphthene	JU	470	ug/kg		470	SW846-8270
Acenaphthylene	JU	470	ug/kg		470	SW846-8270
Anthracene	JU	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JU	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JU	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JU	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzoic acid	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JU	470	ug/kg		470	SW846-8270
Chrysene	JU	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JU	470	ug/kg		470	SW846-8270
Dibenzofuran	JU	470	ug/kg		470	SW846-8270
Diethyl phthalate	JU	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JU	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJ	1100	ug/kg		470	SW846-8270
Di-n-octylphthalate	JU	470	ug/kg		470	SW846-8270
Fluoranthene	JU	470	ug/kg		470	SW846-8270
Fluorene	JU	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JU	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JU	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JU	470	ug/kg	470	SW846-8270
Hexachloroethane	JU	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	470	ug/kg	470	SW846-8270
Isophorone	JU	470	ug/kg	470	SW846-8270
m,p-Cresol	JU	470	ug/kg	470	SW846-8270
Naphthalene	JU	470	ug/kg	470	SW846-8270
Nitrobenzene	JU	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JU	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JU	470	ug/kg	470	SW846-8270
Pentachlorophenol	JU	470	ug/kg	470	SW846-8270
Phenanthrene	JU	470	ug/kg	470	SW846-8270
Phenol	JU	470	ug/kg	470	SW846-8270
Pyrene	JU	470	ug/kg	470	SW846-8270
Pyridine	JU	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	10	ug/kg	10	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	JU	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

030-003**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003SA030

Collected: 3/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7150	mg/kg		19.1	SW846-6010B
Antimony	U	9.82	mg/kg		9.82	SW846-6010B
Arsenic		3.85	mg/kg		0.955	SW846-6020
Barium		27.6	mg/kg		2.39	SW846-6010B
Beryllium	BU	0.478	mg/kg		0.478	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium		911	mg/kg		95.5	SW846-6010B
Chromium		13.2	mg/kg		2.39	SW846-6010B
Cobalt	U	2.39	mg/kg		2.39	SW846-6010B
Copper		3.87	mg/kg		2.39	SW846-6020
Iron		18600	mg/kg		19.1	SW846-6010B
Lead		5.51	mg/kg		0.955	SW846-6020
Magnesium		405	mg/kg		4.78	SW846-6010B
Manganese		26.1	mg/kg		2.39	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel		4.92	mg/kg		4.78	SW846-6010B
Selenium	U	0.955	mg/kg		0.955	SW846-6020
Silver	U	2.39	mg/kg		2.39	SW846-6010B
Sodium	UX	95.5	mg/kg		95.5	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium		0.99	mg/kg		0.955	SW846-6020
Vanadium		19.3	mg/kg		2.39	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00364	pCi/g	0.0070	0.038	RL-7128
Alpha activity		1.48	pCi/g	0.696	1.28	RL-7111
Americium-241	U	-0.0012	pCi/g	0.0048	0.03	RL-7128
Beta activity		1.9	pCi/g	0.374	1.49	RL-7111
Cesium-137	U	0.00797	pCi/g	0.0159	0.047	RL-7124
Cobalt-60	U	-0.0046	pCi/g	0.0092	0.0464	RL-7124
Neptunium-237	U	0.00108	pCi/g	0.0038	0.0406	RL-7128
Plutonium-238	U	0.00194	pCi/g	0.0077	0.0168	RL-7128
Plutonium-239/240	U	0.00067	pCi/g	0.0015	0.0164	RL-7128
Technetium-99	U	0.019	pCi/g	1.06	1.71	RL-7100
Thorium-228		0.32	pCi/g	0.0549	0.0961	RL-7128
Thorium-230	U	0.108	pCi/g	0.0455	0.236	RL-7128
Thorium-232		0.263	pCi/g	0.0529	0.171	RL-7128
Thorium-234	U	2.31	pCi/g	4.63	0.893	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.173	pCi/g	0.206	0.299	RL-7128
Uranium-234	U	0.104	pCi/g	0.0377	0.133	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0656	pCi/g	0.0332	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JU	470	ug/kg		470	SW846-8270
2-Chlorophenol	JU	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JU	470	ug/kg		470	SW846-8270
2-Methylphenol	JU	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
2-Nitrophenol	JU	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JU	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JU	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Nitrophenol	JU	470	ug/kg		470	SW846-8270
Acenaphthene	JU	470	ug/kg		470	SW846-8270
Acenaphthylene	JU	470	ug/kg		470	SW846-8270
Anthracene	JU	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JU	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JU	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JU	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzoic acid	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JU	470	ug/kg		470	SW846-8270
Chrysene	JU	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JU	470	ug/kg		470	SW846-8270
Dibenzofuran	JU	470	ug/kg		470	SW846-8270
Diethyl phthalate	JU	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JU	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	JU	470	ug/kg		470	SW846-8270
Fluoranthene	JU	470	ug/kg		470	SW846-8270
Fluorene	JU	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JU	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JU	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JU	470	ug/kg	470	SW846-8270
Hexachloroethane	JU	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	470	ug/kg	470	SW846-8270
Isophorone	JU	470	ug/kg	470	SW846-8270
m,p-Cresol	JU	470	ug/kg	470	SW846-8270
Naphthalene	JU	470	ug/kg	470	SW846-8270
Nitrobenzene	JU	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JU	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JU	470	ug/kg	470	SW846-8270
Pentachlorophenol	JU	470	ug/kg	470	SW846-8270
Phenanthrene	JU	470	ug/kg	470	SW846-8270
Phenol	JU	470	ug/kg	470	SW846-8270
Pyrene	JU	470	ug/kg	470	SW846-8270
Pyridine	JU	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	JU	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

030-003**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2**

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003SA045

Collected: 3/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7160	mg/kg		17.5	SW846-6010B
Antimony	U	9.18	mg/kg		9.18	SW846-6010B
Arsenic		1.67	mg/kg		0.876	SW846-6020
Barium		58.5	mg/kg		2.19	SW846-6010B
Beryllium	BU	0.438	mg/kg		0.438	SW846-6010B
Cadmium	U	1.75	mg/kg		1.75	SW846-6010B
Calcium		1140	mg/kg		87.6	SW846-6010B
Chromium		11.3	mg/kg		2.19	SW846-6010B
Cobalt	U	2.19	mg/kg		2.19	SW846-6010B
Copper		4.44	mg/kg		2.19	SW846-6020
Iron		11100	mg/kg		17.5	SW846-6010B
Lead		6.17	mg/kg		0.876	SW846-6020
Magnesium		557	mg/kg		4.38	SW846-6010B
Manganese		30.8	mg/kg		2.19	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.19	mg/kg		2.19	SW846-6010B
Nickel		5.07	mg/kg		4.38	SW846-6010B
Selenium	U	0.876	mg/kg		0.876	SW846-6020
Silver	U	2.19	mg/kg		2.19	SW846-6010B
Sodium	UX	87.6	mg/kg		87.6	SW846-6010B
Thallium	U	1.75	mg/kg		1.75	SW846-6020
Uranium		0.958	mg/kg		0.876	SW846-6020
Vanadium		7.3	mg/kg		2.19	SW846-6010B
Zinc	UX	17.5	mg/kg		17.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00784	pCi/g	0.0101	0.0381	RL-7128
Alpha activity		2.52	pCi/g	0.972	1.26	RL-7111
Americium-241	U	-0.001	pCi/g	0.0051	0.031	RL-7128
Beta activity		1.74	pCi/g	0.349	1.48	RL-7111
Cesium-137	U	0.0148	pCi/g	0.0295	0.0512	RL-7124
Cobalt-60	U	0.00698	pCi/g	0.014	0.0381	RL-7124
Neptunium-237	U	0.00841	pCi/g	0.0091	0.0427	RL-7128
Plutonium-238	U	-0.0004	pCi/g	0.0035	0.0174	RL-7128
Plutonium-239/240	U	-9E-05	pCi/g	0	0.0176	RL-7128
Technetium-99	U	-0.0759	pCi/g	1.02	1.71	RL-7100
Thorium-228		0.401	pCi/g	0.0706	0.0982	RL-7128
Thorium-230	U	0.22	pCi/g	0.0622	0.239	RL-7128
Thorium-232		0.41	pCi/g	0.0736	0.173	RL-7128
Thorium-234	U	0.968	pCi/g	1.94	0.886	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.376	pCi/g	0.379	0.299	RL-7128
Uranium-234		0.206	pCi/g	0.0447	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.163	pCi/g	0.0404	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JU	470	ug/kg		470	SW846-8270
2-Chlorophenol	JU	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JU	470	ug/kg		470	SW846-8270
2-Methylphenol	JU	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
2-Nitrophenol	JU	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JU	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JU	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Nitrophenol	JU	470	ug/kg		470	SW846-8270
Acenaphthene	JU	470	ug/kg		470	SW846-8270
Acenaphthylene	JU	470	ug/kg		470	SW846-8270
Anthracene	JU	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JU	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JU	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JU	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzoic acid	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JU	470	ug/kg		470	SW846-8270
Chrysene	JU	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JU	470	ug/kg		470	SW846-8270
Dibenzofuran	JU	470	ug/kg		470	SW846-8270
Diethyl phthalate	JU	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JU	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJ	1300	ug/kg		470	SW846-8270
Di-n-octylphthalate	JU	470	ug/kg		470	SW846-8270
Fluoranthene	JU	470	ug/kg		470	SW846-8270
Fluorene	JU	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JU	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JU	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JU	470	ug/kg	470	SW846-8270
Hexachloroethane	JU	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	470	ug/kg	470	SW846-8270
Isophorone	JU	470	ug/kg	470	SW846-8270
m,p-Cresol	JU	470	ug/kg	470	SW846-8270
Naphthalene	JU	470	ug/kg	470	SW846-8270
Nitrobenzene	JU	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JU	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JU	470	ug/kg	470	SW846-8270
Pentachlorophenol	JU	470	ug/kg	470	SW846-8270
Phenanthrene	JU	470	ug/kg	470	SW846-8270
Phenol	JU	470	ug/kg	470	SW846-8270
Pyrene	JU	470	ug/kg	470	SW846-8270
Pyridine	JU	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	9.96	ug/kg	9.96	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

030-003**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

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030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003SA060

Collected: 3/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8940	mg/kg		17.7	SW846-6010B
Antimony	U	9.52	mg/kg		9.52	SW846-6010B
Arsenic		3.89	mg/kg		0.887	SW846-6020
Barium		126	mg/kg		2.22	SW846-6010B
Beryllium		1.41	mg/kg		0.443	SW846-6010B
Cadmium	U	1.77	mg/kg		1.77	SW846-6010B
Calcium		1320	mg/kg		88.7	SW846-6010B
Chromium		13.8	mg/kg		2.22	SW846-6010B
Cobalt		12.2	mg/kg		2.22	SW846-6010B
Copper		12.4	mg/kg		2.22	SW846-6020
Iron		20000	mg/kg		17.7	SW846-6010B
Lead		14.3	mg/kg		0.887	SW846-6020
Magnesium		1400	mg/kg		4.43	SW846-6010B
Manganese		486	mg/kg		2.22	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.22	mg/kg		2.22	SW846-6010B
Nickel		15.5	mg/kg		4.43	SW846-6010B
Selenium	U	0.887	mg/kg		0.887	SW846-6020
Silver	U	2.22	mg/kg		2.22	SW846-6010B
Sodium	UX	88.7	mg/kg		88.7	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium		1.1	mg/kg		0.887	SW846-6020
Vanadium		8.87	mg/kg		2.22	SW846-6010B
Zinc	X	59.5	mg/kg		17.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0188	pCi/g	0.0128	0.0388	RL-7128
Alpha activity		4.9	pCi/g	1.55	1.52	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0033	0.0298	RL-7128
Beta activity		1.95	pCi/g	0.386	1.57	RL-7111
Cesium-137	U	0.0156	pCi/g	0.0313	0.067	RL-7124
Cobalt-60	U	0.00961	pCi/g	0.0192	0.0578	RL-7124
Neptunium-237	U	0.00125	pCi/g	0.0042	0.0404	RL-7128
Plutonium-238	U	-0.0003	pCi/g	0.0038	0.0171	RL-7128
Plutonium-239/240	U	0.00366	pCi/g	0.007	0.0164	RL-7128
Technetium-99	U	0.399	pCi/g	1.11	1.71	RL-7100
Thorium-228		0.463	pCi/g	0.0634	0.096	RL-7128
Thorium-230	U	0.214	pCi/g	0.052	0.236	RL-7128
Thorium-232		0.436	pCi/g	0.0638	0.173	RL-7128
Thorium-234	U	1.15	pCi/g	2.3	1.05	RL-7124

*QUALIFIER Codes See attached List.

030-003

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.259	pCi/g	0.169	0.3	RL-7128
Uranium-234		0.173	pCi/g	0.0416	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0668	pCi/g	0.0319	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	1700	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	U	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	9.94	ug/kg	9.94	SW846-8260
2-Hexanone	U	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	JU	4.97	ug/kg	4.97	SW846-8260
Acrolein	JU	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	U	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

030-003**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030003WA060

Collected: 3/8/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7.46	mg/L		0.2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.01	mg/L		0.01	SW846-6020
Barium		0.262	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	U	0.0006	mg/L		0.0006	SW846-6020
Calcium		66.6	mg/L		1	SW846-6010B
Chromium	BJNU	0.1	mg/L		0.1	SW846-6020
Cobalt		0.0248	mg/L		0.01	SW846-6020
Copper	U	0.2	mg/L		0.2	SW846-6020
Iron		38.3	mg/L		0.05	SW846-6010B
Lead		0.00357	mg/L		0.0013	SW846-6020
Magnesium	X	22.6	mg/L		0.025	SW846-6010B
Manganese	X	2.87	mg/L		0.05	SW846-6020
Mercury		0.00001	mg/L		1E-05	SW846-7470A
Molybdenum		0.111	mg/L		0.01	SW846-6020
Nickel	U	0.05	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		43.3	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium		0.15	mg/L		0.01	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	U	0.2	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Barium, Dissolved		0.195	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		63.7	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0181	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		18.2	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved	X	21.7	mg/L		0.025	SW846-6010B
Manganese, Dissolved		2.76	mg/L		0.05	SW846-6020
Mercury, Dissolved	NU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.108	mg/L		0.01	SW846-6020
Nickel, Dissolved	NX	0.0362	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		45.4	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved		0.122	mg/L		0.01	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	X	0.0418	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.491	pCi/L	0.108	0.0603	RL-7128
Alpha activity		54.3	pCi/L	3.94	1.57	SW846-9310
Americium-241	U	0.00482	pCi/L	0.0112	0.108	RL-7128
Beta activity	MX	62.7	pCi/L	2.55	1.43	SW846-9310
Bismuth-214		323	pCi/L	5	2.01	RL-7124
Cesium-137	U	0.0415	pCi/L	0.083	1.06	RL-7124
Lead-214		316	pCi/L	4.3	2.59	RL-7124
Neptunium-237	U	0.0628	pCi/L	0.0299	0.0639	RL-7128
Plutonium-238	U	0.00326	pCi/L	0.0127	0.0441	RL-7128
Plutonium-239/240	U	0.00779	pCi/L	0.0102	0.0504	RL-7128
Technetium-99	DML	3.63	pCi/L	0.639	0.816	RL-7100
Thorium-228	U	0.0672	pCi/L	0.0469	0.161	RL-7128
Thorium-230	U	0.0763	pCi/L	0.0564	0.13	RL-7128
Thorium-232	U	0.0214	pCi/L	0.0312	0.0891	RL-7128
Thorium-234	U	-16.8	pCi/L	33.6	27.6	RL-7124
Uranium		28.2	pCi/L	6.32	0.638	RL-7128
Uranium-234		9.84	pCi/L	0.431	0.475	RL-7128
Uranium-238		17.8	pCi/L	0.576	0.103	RL-7128

RADS-D

Activity of U-235		1.25	pCi/L	0.165	0.0525	RL-7128
Uranium-234		18.5	pCi/L	0.568	0.474	RL-7128
Uranium-238		33.9	pCi/L	0.766	0.0989	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.9	ug/L	4.9	SW846-8270
1,2-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,3-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,4-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
2,4,5-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4,6-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dimethylphenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2,6-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2-Chloronaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Chlorophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methylnaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Methylphenol	U	4.9	ug/L	4.9	SW846-8270
2-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
2-Nitrophenol	U	4.9	ug/L	4.9	SW846-8270
3,3'-Dichlorobenzidine	U	4.9	ug/L	4.9	SW846-8270
3-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Bromophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

4-Chloro-3-methylphenol	U	4.9 ug/L	4.9	SW846-8270
4-Chlorobenzeneamine	U	4.9 ug/L	4.9	SW846-8270
4-Chlorophenyl phenyl ether	U	4.9 ug/L	4.9	SW846-8270
4-Nitrobenzeneamine	U	4.9 ug/L	4.9	SW846-8270
4-Nitrophenol	JU	4.9 ug/L	4.9	SW846-8270
Acenaphthene	U	4.9 ug/L	4.9	SW846-8270
Acenaphthylene	U	4.9 ug/L	4.9	SW846-8270
Anthracene	U	4.9 ug/L	4.9	SW846-8270
Benz(a)anthracene	U	4.9 ug/L	4.9	SW846-8270
Benzenemethanol	U	4.9 ug/L	4.9	SW846-8270
Benzo(a)pyrene	U	4.9 ug/L	4.9	SW846-8270
Benzo(b)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzo(ghi)perylene	U	4.9 ug/L	4.9	SW846-8270
Benzo(k)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzoic acid	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethoxy)methane	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.9 ug/L	4.9	SW846-8270
Butyl benzyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Chrysene	U	4.9 ug/L	4.9	SW846-8270
Dibenz(a,h)anthracene	U	4.9 ug/L	4.9	SW846-8270
Dibenzofuran	U	4.9 ug/L	4.9	SW846-8270
Diethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Dimethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-butyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-octylphthalate	U	4.9 ug/L	4.9	SW846-8270
Fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Fluorene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobenzene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobutadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorocyclopentadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachloroethane	U	4.9 ug/L	4.9	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.9 ug/L	4.9	SW846-8270
Isophorone	U	4.9 ug/L	4.9	SW846-8270
m,p-Cresol	U	4.9 ug/L	4.9	SW846-8270
Naphthalene	U	4.9 ug/L	4.9	SW846-8270
Nitrobenzene	U	4.9 ug/L	4.9	SW846-8270
N-Nitroso-di-n-propylamine	U	4.9 ug/L	4.9	SW846-8270
N-Nitrosodiphenylamine	U	4.9 ug/L	4.9	SW846-8270
Pentachlorophenol	U	4.9 ug/L	4.9	SW846-8270
Phenanthrene	U	4.9 ug/L	4.9	SW846-8270
Phenol	JU	4.9 ug/L	4.9	SW846-8270
Pyrene	U	4.9 ug/L	4.9	SW846-8270
Pyridine	U	4.9 ug/L	4.9	SW846-8270
VOA				
1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260
2-Butanone	U	10 ug/L	10 SW846-8260
2-Chloroethyl vinyl ether	U	10 ug/L	10 SW846-8260
2-Hexanone	U	10 ug/L	10 SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10 SW846-8260
Acetone		27 ug/L	10 SW846-8260
Acrolein	U	10 ug/L	10 SW846-8260
Acrylonitrile	U	10 ug/L	10 SW846-8260
Benzene	U	5 ug/L	5 SW846-8260
Bromodichloromethane	U	5 ug/L	5 SW846-8260
Bromoform	U	5 ug/L	5 SW846-8260
Bromomethane	U	5 ug/L	5 SW846-8260
Carbon disulfide	U	5 ug/L	5 SW846-8260
Carbon tetrachloride	U	5 ug/L	5 SW846-8260
Chlorobenzene	U	5 ug/L	5 SW846-8260
Chloroethane	U	5 ug/L	5 SW846-8260
Chloroform	U	5 ug/L	5 SW846-8260
Chloromethane	U	5 ug/L	5 SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5 SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5 SW846-8260
Dibromochloromethane	U	5 ug/L	5 SW846-8260
Dibromomethane	U	5 ug/L	5 SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5 SW846-8260
Ethyl methacrylate	U	5 ug/L	5 SW846-8260
Ethylbenzene	U	5 ug/L	5 SW846-8260
Iodomethane	U	5 ug/L	5 SW846-8260
m,p-Xylene	U	10 ug/L	10 SW846-8260
Methylene chloride	U	5 ug/L	5 SW846-8260
Styrene	U	5 ug/L	5 SW846-8260
Tetrachloroethene	U	5 ug/L	5 SW846-8260
Toluene	U	5 ug/L	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5 SW846-8260
Trichloroethene	U	1 ug/L	1 SW846-8260
Trichlorofluoromethane	U	5 ug/L	5 SW846-8260
Vinyl acetate	U	10 ug/L	10 SW846-8260
Vinyl chloride	U	2 ug/L	2 SW846-8260

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030-004

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030004SA010

Collected: 3/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8970	mg/kg		18.1	SW846-6010B
Antimony	U	9.76	mg/kg		9.76	SW846-6010B
Arsenic		1.69	mg/kg		0.907	SW846-6020
Barium		94.5	mg/kg		2.27	SW846-6010B
Beryllium	BU	0.453	mg/kg		0.453	SW846-6010B
Cadmium	U	1.81	mg/kg		1.81	SW846-6010B
Calcium		748	mg/kg		90.7	SW846-6010B
Chromium		10.7	mg/kg		2.27	SW846-6010B
Cobalt		2.56	mg/kg		2.27	SW846-6010B
Copper		8.15	mg/kg		2.27	SW846-6020
Iron		9400	mg/kg		18.1	SW846-6010B
Lead		3.15	mg/kg		0.907	SW846-6020
Magnesium		1280	mg/kg		4.53	SW846-6010B
Manganese		161	mg/kg		2.27	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel		11.3	mg/kg		4.53	SW846-6010B
Selenium	U	0.907	mg/kg		0.907	SW846-6020
Silver	U	2.27	mg/kg		2.27	SW846-6010B
Sodium	X	176	mg/kg		90.7	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	U	0.907	mg/kg		0.907	SW846-6020
Vanadium	U	2.27	mg/kg		2.27	SW846-6010B
Zinc	X	32.6	mg/kg		18.1	SW846-6010B
PPCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0195	pCi/g	0.0117	0.0371	RL-7128
Alpha activity		6.01	pCi/g	1.79	1.73	RL-7111
Americium-241	U	-0.0008	pCi/g	0.0065	0.0301	RL-7128
Beta activity		5.37	pCi/g	0.827	1.61	RL-7111
Cesium-137	U	-0.0136	pCi/g	0.0272	0.041	RL-7124
Cobalt-60	U	-0.0134	pCi/g	0.0268	0.0482	RL-7124
Neptunium-237	U	-0.0067	pCi/g	0.0069	0.0412	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0.0007	0.0166	RL-7128
Plutonium-239/240	U	0.00027	pCi/g	0.0007	0.0163	RL-7128
Technetium-99	U	0.0127	pCi/g	0.93	1.71	RL-7100
Thorium-228		0.465	pCi/g	0.0673	0.0962	RL-7128
Thorium-230		0.365	pCi/g	0.0662	0.235	RL-7128
Thorium-232		0.4	pCi/g	0.0643	0.172	RL-7128
Thorium-234	U	1.22	pCi/g	2.43	0.922	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium		0.35	pCi/g	0.2	0.295	RL-7128
Uranium-234		0.15	pCi/g	0.0367	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.181	pCi/g	0.0373	0.128	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JU	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JU	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JU	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JU	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JU	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JU	480	ug/kg		480	SW846-8270
2-Chlorophenol	JU	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JU	480	ug/kg		480	SW846-8270
2-Methylphenol	JU	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
2-Nitrophenol	JU	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JU	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JU	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JU	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JU	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JU	480	ug/kg		480	SW846-8270
4-Nitrophenol	JU	480	ug/kg		480	SW846-8270
Acenaphthene	JU	480	ug/kg		480	SW846-8270
Acenaphthylene	JU	480	ug/kg		480	SW846-8270
Anthracene	JU	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JU	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JU	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JU	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JU	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JU	480	ug/kg		480	SW846-8270
Benzoic acid	JU	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JU	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JU	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JU	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JU	480	ug/kg		480	SW846-8270
Chrysene	JU	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JU	480	ug/kg		480	SW846-8270
Dibenzofuran	JU	480	ug/kg		480	SW846-8270
Diethyl phthalate	JU	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JU	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JU	480	ug/kg		480	SW846-8270
Fluoranthene	JU	480	ug/kg		480	SW846-8270
Fluorene	JU	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JU	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JU	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JU	480	ug/kg	480	SW846-8270
Hexachloroethane	JU	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	480	ug/kg	480	SW846-8270
Isophorone	JU	480	ug/kg	480	SW846-8270
m,p-Cresol	JU	480	ug/kg	480	SW846-8270
Naphthalene	JU	480	ug/kg	480	SW846-8270
Nitrobenzene	JU	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JU	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JU	480	ug/kg	480	SW846-8270
Pentachlorophenol	JU	480	ug/kg	480	SW846-8270
Phenanthrene	JU	480	ug/kg	480	SW846-8270
Phenol	JU	480	ug/kg	480	SW846-8270
Pyrene	JU	480	ug/kg	480	SW846-8270
Pyridine	JU	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

030-004**BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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030-004

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030004SA015

Collected: 3/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8110	mg/kg		18.9	SW846-6010B
Antimony	U	9.69	mg/kg		9.69	SW846-6010B
Arsenic	U	0.946	mg/kg		0.946	SW846-6020
Barium		78.7	mg/kg		2.36	SW846-6010B
Beryllium	BU	0.473	mg/kg		0.473	SW846-6010B
Cadmium	U	1.89	mg/kg		1.89	SW846-6010B
Calcium		1210	mg/kg		94.6	SW846-6010B
Chromium		12.7	mg/kg		2.36	SW846-6010B
Cobalt	U	2.36	mg/kg		2.36	SW846-6010B
Copper		5.35	mg/kg		2.36	SW846-6020
Iron		5890	mg/kg		18.9	SW846-6010B
Lead		5.47	mg/kg		0.946	SW846-6020
Magnesium		1120	mg/kg		4.73	SW846-6010B
Manganese		36.6	mg/kg		2.36	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.36	mg/kg		2.36	SW846-6010B
Nickel		8.92	mg/kg		4.73	SW846-6010B
Selenium	U	0.946	mg/kg		0.946	SW846-6020
Silver	U	2.36	mg/kg		2.36	SW846-6010B
Sodium	X	187	mg/kg		94.6	SW846-6010B
Thallium	U	1.89	mg/kg		1.89	SW846-6020
Uranium	U	0.946	mg/kg		0.946	SW846-6020
Vanadium		4.08	mg/kg		2.36	SW846-6010B
Zinc	X	20.9	mg/kg		18.9	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0101	pCi/g	0.0094	0.0382	RL-7128
Alpha activity		3.75	pCi/g	1.25	1.36	RL-7111
Americium-241	U	-0.0046	pCi/g	0	0.03	RL-7128
Beta activity		3.28	pCi/g	0.573	1.53	RL-7111
Cesium-137	U	-0.0095	pCi/g	0.0189	0.0473	RL-7124
Cobalt-60	U	-0.0093	pCi/g	0.0186	0.0462	RL-7124
Neptunium-237	U	-0.0048	pCi/g	0.0080	0.0414	RL-7128
Plutonium-238	U	-0.0035	pCi/g	0.0026	0.0173	RL-7128
Plutonium-239/240	U	0.00321	pCi/g	0.0047	0.0165	RL-7128
Technetium-99	U	-0.133	pCi/g	1.13	1.71	RL-7100
Thorium-228		0.302	pCi/g	0.0686	0.101	RL-7128
Thorium-230	U	0.193	pCi/g	0.0664	0.24	RL-7128
Thorium-232		0.299	pCi/g	0.07	0.175	RL-7128
Thorium-234	U	1.71	pCi/g	3.43	0.867	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.0806	pCi/g	0.0657	0.297	RL-7128
Uranium-234	U	0.0383	pCi/g	0.03	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0323	pCi/g	0.0267	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	570	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

030-004

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030004SA030

Collected: 3/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8330	mg/kg		18.8	SW846-6010B
Antimony	U	9.34	mg/kg		9.34	SW846-6010B
Arsenic	U	0.942	mg/kg		0.942	SW846-6020
Barium		30.7	mg/kg		2.36	SW846-6010B
Beryllium	BU	0.471	mg/kg		0.471	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		1270	mg/kg		94.2	SW846-6010B
Chromium		6.45	mg/kg		2.36	SW846-6010B
Cobalt	U	2.36	mg/kg		2.36	SW846-6010B
Copper	U	2.36	mg/kg		2.36	SW846-6020
Iron		6620	mg/kg		18.8	SW846-6010B
Lead		4.17	mg/kg		0.942	SW846-6020
Magnesium		627	mg/kg		4.71	SW846-6010B
Manganese		15.7	mg/kg		2.36	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.36	mg/kg		2.36	SW846-6010B
Nickel	U	4.71	mg/kg		4.71	SW846-6010B
Selenium	U	0.942	mg/kg		0.942	SW846-6020
Silver	U	2.36	mg/kg		2.36	SW846-6010B
Sodium	X	101	mg/kg		94.2	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	U	0.942	mg/kg		0.942	SW846-6020
Vanadium		3.33	mg/kg		2.36	SW846-6010B
Zinc	UX	18.8	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00187	pCi/g	0.0073	0.0385	RL-7128
Alpha activity		3.14	pCi/g	1.11	1.24	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0034	0.0295	RL-7128
Beta activity	U	1.04	pCi/g	0.226	1.47	RL-7111
Cesium-137	U	-0.0136	pCi/g	0.0273	0.0385	RL-7124
Cobalt-60	U	0.0102	pCi/g	0.0204	0.0403	RL-7124
Neptunium-237	U	0.00348	pCi/g	0.0086	0.0402	RL-7128
Plutonium-238	U	-0.0004	pCi/g	0.0036	0.0163	RL-7128
Plutonium-239/240	U	0.00139	pCi/g	0.003	0.0161	RL-7128
Technetium-99	U	-0.424	pCi/g	1.08	1.71	RL-7100
Thorium-228		0.226	pCi/g	0.0516	0.0972	RL-7128
Thorium-230	U	0.0969	pCi/g	0.0481	0.236	RL-7128
Thorium-232		0.189	pCi/g	0.0516	0.172	RL-7128
Thorium-234	U	0.939	pCi/g	1.88	0.778	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.149	pCi/g	0.258	0.299	RL-7128
Uranium-234	U	0.0734	pCi/g	0.0345	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0739	pCi/g	0.033	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	540	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	9.97	ug/kg	9.97	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	U	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030004SA045

Collected: 3/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		3740	mg/kg		17.6	SW846-6010B
Antimony	U	9.75	mg/kg		9.75	SW846-6010B
Arsenic		0.898	mg/kg		0.878	SW846-6020
Barium		22.2	mg/kg		2.19	SW846-6010B
Beryllium	BU	0.439	mg/kg		0.439	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium		723	mg/kg		87.8	SW846-6010B
Chromium		3.84	mg/kg		2.19	SW846-6010B
Cobalt	U	2.19	mg/kg		2.19	SW846-6010B
Copper		2.62	mg/kg		2.19	SW846-6020
Iron		5020	mg/kg		17.6	SW846-6010B
Lead		4.77	mg/kg		0.878	SW846-6020
Magnesium		348	mg/kg		4.39	SW846-6010B
Manganese		22.8	mg/kg		2.19	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.19	mg/kg		2.19	SW846-6010B
Nickel	U	4.39	mg/kg		4.39	SW846-6010B
Selenium	U	0.878	mg/kg		0.878	SW846-6020
Silver	U	2.19	mg/kg		2.19	SW846-6010B
Sodium	UX	87.8	mg/kg		87.8	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium	U	0.878	mg/kg		0.878	SW846-6020
Vanadium		3.21	mg/kg		2.19	SW846-6010B
Zinc	UX	17.6	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00223	pCi/g	0.0087	0.0383	RL-7128
Alpha activity		3.14	pCi/g	1.09	1.24	RL-7111
Americium-241	U	-0.0030	pCi/g	0.0031	0.0292	RL-7128
Beta activity		2.23	pCi/g	0.423	1.46	RL-7111
Cesium-137	U	-0.0097	pCi/g	0.0194	0.0464	RL-7124
Cobalt-60	U	0.0121	pCi/g	0.0243	0.0455	RL-7124
Neptunium-237	U	-0.0031	pCi/g	0.0045	0.0399	RL-7128
Plutonium-238	U	-0.0034	pCi/g	0.0024	0.0165	RL-7128
Plutonium-239/240	U	0.00374	pCi/g	0.0071	0.0161	RL-7128
Technetium-99	U	-0.304	pCi/g	1.08	1.71	RL-7100
Thorium-228		0.187	pCi/g	0.043	0.0958	RL-7128
Thorium-230	U	0.123	pCi/g	0.0437	0.235	RL-7128
Thorium-232		0.191	pCi/g	0.0464	0.171	RL-7128
Thorium-234		1.36	pCi/g	0.674	0.655	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.498	pCi/g	0.931	0.298	RL-7128
Uranium-234		0.163	pCi/g	0.0413	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.333	pCi/g	0.0511	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	560	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	U	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	9.93	ug/kg	9.93	SW846-8260
2-Hexanone	U	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	U	4.96	ug/kg	4.96	SW846-8260
Acrolein	JU	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg	9.93	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

030-004

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

030004SA060

Collected: 3/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9270	mg/kg		19.1	SW846-6010B
Antimony	U	9.55	mg/kg		9.55	SW846-6010B
Arsenic		2.17	mg/kg		0.953	SW846-6020
Barium		97.6	mg/kg		2.38	SW846-6010B
Beryllium	B	0.61	mg/kg		0.477	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium		1610	mg/kg		95.3	SW846-6010B
Chromium		15.7	mg/kg		2.38	SW846-6010B
Cobalt		5.9	mg/kg		2.38	SW846-6010B
Copper		9.99	mg/kg		2.38	SW846-6020
Iron		15400	mg/kg		19.1	SW846-6010B
Lead		5.55	mg/kg		0.953	SW846-6020
Magnesium		1670	mg/kg		4.77	SW846-6010B
Manganese		171	mg/kg		2.38	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.38	mg/kg		2.38	SW846-6010B
Nickel		16.9	mg/kg		4.77	SW846-6010B
Selenium	U	0.953	mg/kg		0.953	SW846-6020
Silver	U	2.38	mg/kg		2.38	SW846-6010B
Sodium	UX	95.3	mg/kg		95.3	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium		1.05	mg/kg		0.953	SW846-6020
Vanadium		3.79	mg/kg		2.38	SW846-6010B
Zinc	X	59.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00605	pCi/g	0.0108	0.038	RL-7128
Alpha activity		6.2	pCi/g	1.83	1.68	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0034	0.0303	RL-7128
Beta activity		3.54	pCi/g	0.615	1.6	RL-7111
Cesium-137	U	-0.0107	pCi/g	0.0214	0.0614	RL-7124
Cobalt-60	U	0.019	pCi/g	0.0381	0.0612	RL-7124
Neptunium-237	U	-0.0062	pCi/g	0.0094	0.0415	RL-7128
Plutonium-238	U	-0.0022	pCi/g	0	0.0169	RL-7128
Plutonium-239/240	U	-0.0027	pCi/g	0.0037	0.0165	RL-7128
Technetium-99	U	-0.348	pCi/g	1.07	1.71	RL-7100
Thorium-228		0.432	pCi/g	0.07	0.0978	RL-7128
Thorium-230	U	0.201	pCi/g	0.0585	0.236	RL-7128
Thorium-232		0.39	pCi/g	0.0688	0.173	RL-7128
Thorium-234	U	1.74	pCi/g	3.48	0.999	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Uranium	U	0.265	pCi/g	0.341	0.298	RL-7128
Uranium-234		0.16	pCi/g	0.0396	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0989	pCi/g	0.0334	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	560	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJ	1500	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

030-004

BGOU07-SWMU30A Burial Ground OU SWMU 30 Angle Borings BGOU07-SWMU30ASB2

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003001SA010

Collected: 4/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		11800	mg/kg		18.7	SW846-6010B
Antimony	U	8.36	mg/kg		8.36	SW846-6010B
Arsenic		5.69	mg/kg		0.936	SW846-6020
Barium		99.2	mg/kg		2.34	SW846-6010B
Beryllium	UX	0.468	mg/kg		0.468	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium		1550	mg/kg		93.6	SW846-6010B
Chromium		14.1	mg/kg		2.34	SW846-6010B
Cobalt		5.22	mg/kg		2.34	SW846-6010B
Copper	J	12.8	mg/kg		2.34	SW846-6020
Iron		13900	mg/kg		18.7	SW846-6010B
Lead		23.9	mg/kg		9.36	SW846-6020
Magnesium		1600	mg/kg		4.68	SW846-6010B
Manganese	*N	507	mg/kg		2.34	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel		14.2	mg/kg		4.68	SW846-6010B
Selenium	U	0.936	mg/kg		0.936	SW846-6020
Silver	UX	2.34	mg/kg		2.34	SW846-6010B
Sodium	U	93.6	mg/kg		93.6	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	B	83.6	mg/kg		9.36	SW846-6020
Vanadium		16.7	mg/kg		2.34	SW846-6010B
Zinc		41.5	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235		0.14	pCi/g	0.0479	0.0476	RL-7128
Alpha activity		16.6	pCi/g	2.98	1.59	RL-7111
Americium-241	U	-0.0060	pCi/g	0.0045	0.0213	RL-7128
Beta activity		23.8	pCi/g	2.03	1.58	RL-7111
Cesium-137	U	0.0194	pCi/g	0.0387	0.0628	RL-7124
Cobalt-60	U	0.00673	pCi/g	0.0135	0.0539	RL-7124
Neptunium-237	U	0.00133	pCi/g	0.0094	0.0419	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0032	0.0175	RL-7128
Plutonium-239/240	U	-0.0017	pCi/g	0.0032	0.0173	RL-7128
Technetium-99	U	1.66	pCi/g	1.2	1.8	RL-7100
Thorium-228		0.365	pCi/g	0.0816	0.0846	RL-7128
Thorium-230		0.245	pCi/g	0.0775	0.243	RL-7128
Thorium-232		0.328	pCi/g	0.0768	0.172	RL-7128
Thorium-234		14.1	pCi/g	1.25	0.985	RL-7124

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BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium		8.53	pCi/g	3.12	0.324	RL-7128
Uranium-234		0.927	pCi/g	0.118	0.141	RL-7128
Uranium-235		0.29	wt %	0.111		RL-7128
Uranium-238		7.47	pCi/g	0.316	0.136	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	U	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003001SA015

Collected: 4/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6520	mg/kg		17.1	SW846-6010B
Antimony	U	9.39	mg/kg		9.39	SW846-6010B
Arsenic		0.956	mg/kg		0.855	SW846-6020
Barium		61.7	mg/kg		2.14	SW846-6010B
Beryllium	UX	0.428	mg/kg		0.428	SW846-6010B
Cadmium	U	1.71	mg/kg		1.71	SW846-6010B
Calcium		947	mg/kg		85.5	SW846-6010B
Chromium		7.37	mg/kg		2.14	SW846-6010B
Cobalt		10.1	mg/kg		2.14	SW846-6010B
Copper	J	4.73	mg/kg		2.14	SW846-6020
Iron		6620	mg/kg		17.1	SW846-6010B
Lead		6.14	mg/kg		0.855	SW846-6020
Magnesium		840	mg/kg		4.28	SW846-6010B
Manganese	*N	644	mg/kg		2.14	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.14	mg/kg		2.14	SW846-6010B
Nickel		9.22	mg/kg		4.28	SW846-6010B
Selenium	U	0.855	mg/kg		0.855	SW846-6020
Silver	UX	2.14	mg/kg		2.14	SW846-6010B
Sodium	U	85.5	mg/kg		85.5	SW846-6010B
Thallium	U	1.71	mg/kg		1.71	SW846-6020
Uranium	BU	0.855	mg/kg		0.855	SW846-6020
Vanadium		10.9	mg/kg		2.14	SW846-6010B
Zinc	U	17.1	mg/kg		17.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0291	pCi/g	0.0157	0.0387	RL-7128
Alpha activity		4.61	pCi/g	1.46	1.41	RL-7111
Americium-241	U	-0.0023	pCi/g	0.0069	0.0225	RL-7128
Beta activity		2.95	pCi/g	0.528	1.54	RL-7111
Cesium-137	U	-0.0253	pCi/g	0.0506	0.0468	RL-7124
Cobalt-60	U	0.0105	pCi/g	0.021	0.0451	RL-7124
Neptunium-237	U	-0.0115	pCi/g	0.0073	0.0412	RL-7128
Plutonium-238	U	-0.0044	pCi/g	0.0053	0.0192	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0005	0.0187	RL-7128
Technetium-99	U	0.339	pCi/g	1.17	1.8	RL-7100
Thorium-228		0.202	pCi/g	0.0495	0.0793	RL-7128
Thorium-230		0.241	pCi/g	0.0576	0.239	RL-7128
Thorium-232		0.265	pCi/g	0.0524	0.169	RL-7128
Thorium-234	U	2.27	pCi/g	4.54	0.918	RL-7124

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium		0.464	pCi/g	0.274	0.298	RL-7128
Uranium-234	U	0.081	pCi/g	0.0316	0.133	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.354	pCi/g	0.0512	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	U	4.97	ug/kg		4.97	SW846-8260
Acrolein	U	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	U	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.95	ug/kg		9.95	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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12/18/2007

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003001SA030

Collected: 4/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5800	mg/kg		19	SW846-6010B
Antimony	U	9.46	mg/kg		9.46	SW846-6010B
Arsenic	U	0.951	mg/kg		0.951	SW846-6020
Barium		13.4	mg/kg		2.38	SW846-6010B
Beryllium	UX	0.476	mg/kg		0.476	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium		625	mg/kg		95.1	SW846-6010B
Chromium		6.39	mg/kg		2.38	SW846-6010B
Cobalt	U	2.38	mg/kg		2.38	SW846-6010B
Copper	J	3.8	mg/kg		2.38	SW846-6020
Iron		9940	mg/kg		19	SW846-6010B
Lead		5.58	mg/kg		0.951	SW846-6020
Magnesium		312	mg/kg		4.76	SW846-6010B
Manganese	*N	46.8	mg/kg		2.38	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.38	mg/kg		2.38	SW846-6010B
Nickel	U	4.76	mg/kg		4.76	SW846-6010B
Selenium	U	0.951	mg/kg		0.951	SW846-6020
Silver	UX	2.38	mg/kg		2.38	SW846-6010B
Sodium	U	95.1	mg/kg		95.1	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	B	1.05	mg/kg		0.951	SW846-6020
Vanadium		18.6	mg/kg		2.38	SW846-6010B
Zinc	U	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00855	pCi/g	0.0086	0.038	RL-7128
Alpha activity		4.47	pCi/g	1.36	1.25	RL-7111
Americium-241	U	-0.0041	pCi/g	0.0059	0.0221	RL-7128
Beta activity		2.47	pCi/g	0.458	1.48	RL-7111
Cesium-137	U	-0.016	pCi/g	0.0319	0.0473	RL-7124
Cobalt-60	U	-0.0141	pCi/g	0.0282	0.027	RL-7124
Neptunium-237	U	-0.0019	pCi/g	0.008	0.0414	RL-7128
Plutonium-238	U	-0.0015	pCi/g	0.0005	0.0176	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0005	0.0178	RL-7128
Technetium-99	U	-0.711	pCi/g	1.15	1.8	RL-7100
Thorium-228		0.341	pCi/g	0.0579	0.0784	RL-7128
Thorium-230	U	0.212	pCi/g	0.0508	0.237	RL-7128
Thorium-232		0.471	pCi/g	0.0643	0.166	RL-7128
Thorium-234	U	0.992	pCi/g	1.98	0.894	RL-7124

*QUALIFIER Codes See attached List.

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.38	pCi/g	0.392	0.297	RL-7128
Uranium-234		0.18	pCi/g	0.0378	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.192	pCi/g	0.0379	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	U	5.02	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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12/18/2007

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003001SA045

Collected: 4/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7590	mg/kg		17.6	SW846-6010B
Antimony	U	7.83	mg/kg		7.83	SW846-6010B
Arsenic		8.25	mg/kg		0.88	SW846-6020
Barium		30.9	mg/kg		2.2	SW846-6010B
Beryllium	UX	0.44	mg/kg		0.44	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium		888	mg/kg		88	SW846-6010B
Chromium		8.96	mg/kg		2.2	SW846-6010B
Cobalt		2.76	mg/kg		2.2	SW846-6010B
Copper	J	8.05	mg/kg		2.2	SW846-6020
Iron		23000	mg/kg		17.6	SW846-6010B
Lead		10.4	mg/kg		0.88	SW846-6020
Magnesium		640	mg/kg		4.4	SW846-6010B
Manganese	*N	45.9	mg/kg		2.2	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.2	mg/kg		2.2	SW846-6010B
Nickel		7.74	mg/kg		4.4	SW846-6010B
Selenium	U	0.88	mg/kg		0.88	SW846-6020
Silver	UX	2.2	mg/kg		2.2	SW846-6010B
Sodium	U	88	mg/kg		88	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium	B	1.41	mg/kg		0.88	SW846-6020
Vanadium		20.4	mg/kg		2.2	SW846-6010B
Zinc		24.1	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0266	pCi/g	0.0149	0.0382	RL-7128
Alpha activity		5.73	pCi/g	1.77	1.69	RL-7111
Americium-241	U	-0.0076	pCi/g	0.0033	0.0218	RL-7128
Beta activity		4.65	pCi/g	0.742	1.59	RL-7111
Cesium-137	U	0.00060	pCi/g	0.0012	0.053	RL-7124
Cobalt-60	U	-0.0136	pCi/g	0.0271	0.0477	RL-7124
Neptunium-237	U	-0.0051	pCi/g	0.0016	0.0405	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0032	0.017	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0004	0.0166	RL-7128
Technetium-99	U	0.16	pCi/g	1.15	1.8	RL-7100
Thorium-228		0.566	pCi/g	0.0706	0.0781	RL-7128
Thorium-230		0.382	pCi/g	0.0628	0.237	RL-7128
Thorium-232		0.603	pCi/g	0.0704	0.166	RL-7128
Thorium-234	U	2.02	pCi/g	4.04	1.1	RL-7124

*QUALIFIER Codes See attached List.

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium		0.602	pCi/g	0.355	0.298	RL-7128
Uranium-234		0.305	pCi/g	0.0474	0.133	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.271	pCi/g	0.0436	0.126	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	U	4.98	ug/kg		4.98	SW846-8260
Acrolein	U	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003001SA060

Collected: 4/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7230	mg/kg		19.8	SW846-6010B
Antimony	U	7.52	mg/kg		7.52	SW846-6010B
Arsenic		1.65	mg/kg		0.991	SW846-6020
Barium		78.1	mg/kg		2.48	SW846-6010B
Beryllium	UX	0.495	mg/kg		0.495	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium		697	mg/kg		99.1	SW846-6010B
Chromium		6.14	mg/kg		2.48	SW846-6010B
Cobalt		12.8	mg/kg		2.48	SW846-6010B
Copper	J	6.85	mg/kg		2.48	SW846-6020
Iron		12500	mg/kg		19.8	SW846-6010B
Lead		5.1	mg/kg		0.991	SW846-6020
Magnesium		926	mg/kg		4.95	SW846-6010B
Manganese	*N	451	mg/kg		2.48	SW846-6010B
Mercury		0.02	mg/kg		0.015	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel		7.26	mg/kg		4.95	SW846-6010B
Selenium	U	0.991	mg/kg		0.991	SW846-6020
Silver	UX	2.48	mg/kg		2.48	SW846-6010B
Sodium	U	99.1	mg/kg		99.1	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	BU	0.991	mg/kg		0.991	SW846-6020
Vanadium		14.5	mg/kg		2.48	SW846-6010B
Zinc		30.3	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00986	pCi/g	0.0109	0.0385	RL-7128
Alpha activity		4.31	pCi/g	1.5	1.66	RL-7111
Americium-241	U	-0.0073	pCi/g	0.0038	0.0226	RL-7128
Beta activity		3.2	pCi/g	0.566	1.59	RL-7111
Cesium-137	U	-0.0181	pCi/g	0.0363	0.046	RL-7124
Cobalt-60	U	0.01	pCi/g	0.02	0.0453	RL-7124
Neptunium-237	U	-0.0004	pCi/g	0.0085	0.0411	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0	0.0188	RL-7128
Plutonium-239/240	U	0.00172	pCi/g	0.0058	0.0188	RL-7128
Technetium-99	U	0.0997	pCi/g	1.16	1.8	RL-7100
Thorium-228		0.344	pCi/g	0.0577	0.0785	RL-7128
Thorium-230	U	0.155	pCi/g	0.0462	0.237	RL-7128
Thorium-232		0.34	pCi/g	0.0554	0.166	RL-7128
Thorium-234	U	0.945	pCi/g	1.89	0.882	RL-7124

*QUALIFIER Codes See attached List.

003-001

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.334	pCi/g	0.376	0.299	RL-7128
Uranium-234		0.178	pCi/g	0.0393	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.147	pCi/g	0.0362	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	U	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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12/18/2007

003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003002SA010

Collected: 4/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9990	mg/kg		18.4	SW846-6010B
Antimony	U	9.18	mg/kg		9.18	SW846-6010B
Arsenic		3.09	mg/kg		0.919	SW846-6020
Barium		71.3	mg/kg		2.3	SW846-6010B
Beryllium	UX	0.46	mg/kg		0.46	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium		2320	mg/kg		91.9	SW846-6010B
Chromium		12.7	mg/kg		2.3	SW846-6010B
Cobalt		3.6	mg/kg		2.3	SW846-6010B
Copper	J	11.3	mg/kg		2.3	SW846-6020
Iron		15100	mg/kg		18.4	SW846-6010B
Lead		8.85	mg/kg		0.919	SW846-6020
Magnesium		1500	mg/kg		4.6	SW846-6010B
Manganese	*N	339	mg/kg		2.3	SW846-6010B
Mercury		0.02	mg/kg		0.018	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		11.2	mg/kg		4.6	SW846-6010B
Selenium	U	0.919	mg/kg		0.919	SW846-6020
Silver	UX	2.3	mg/kg		2.3	SW846-6010B
Sodium	U	91.9	mg/kg		91.9	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	B	33.7	mg/kg		4.6	SW846-6020
Vanadium		14.2	mg/kg		2.3	SW846-6010B
Zinc		37.1	mg/kg		18.4	SW846-6010B
PPCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235		0.362	pCi/g	0.0899	0.0561	RL-7128
Alpha activity		147	pCi/g	11.2	2.63	RL-7111
Americium-241	U	-0.0044	pCi/g	0.0056	0.0216	RL-7128
Beta activity		268	pCi/g	7.57	1.74	RL-7111
Cesium-137	U	0.0134	pCi/g	0.0269	0.0629	RL-7124
Cobalt-60	U	0.00516	pCi/g	0.0103	0.0578	RL-7124
Neptunium-237	U	0.00902	pCi/g	0.0114	0.041	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0.0005	0.0187	RL-7128
Plutonium-239/240	U	0.0162	pCi/g	0.0119	0.0181	RL-7128
Technetium-99	U	1.31	pCi/g	1.19	1.8	RL-7100
Thorium-228		0.454	pCi/g	0.064	0.0785	RL-7128
Thorium-230		0.573	pCi/g	0.0731	0.238	RL-7128
Thorium-232		0.432	pCi/g	0.0612	0.167	RL-7128
Thorium-234		14.1	pCi/g	1.32	1.21	RL-7124

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BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium		25.8	pCi/g	6.73	0.333	RL-7128
Uranium-234		3.02	pCi/g	0.23	0.142	RL-7128
Uranium-235		0.251	wt %	0.0733		RL-7128
Uranium-238		22.4	pCi/g	0.616	0.136	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone		36.9	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003002SA015

Collected: 4/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7270	mg/kg		19.5	SW846-6010B
Antimony	U	6.88	mg/kg		6.88	SW846-6010B
Arsenic		2.12	mg/kg		0.975	SW846-6020
Barium		62.5	mg/kg		2.44	SW846-6010B
Beryllium	UX	0.488	mg/kg		0.488	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium		1160	mg/kg		97.5	SW846-6010B
Chromium		10	mg/kg		2.44	SW846-6010B
Cobalt		5.18	mg/kg		2.44	SW846-6010B
Copper	J	7.28	mg/kg		2.44	SW846-6020
Iron		7770	mg/kg		19.5	SW846-6010B
Lead		7.07	mg/kg		0.975	SW846-6020
Magnesium		1060	mg/kg		4.88	SW846-6010B
Manganese	*N	288	mg/kg		2.44	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		8.76	mg/kg		4.88	SW846-6010B
Selenium	U	0.975	mg/kg		0.975	SW846-6020
Silver	UX	2.44	mg/kg		2.44	SW846-6010B
Sodium	U	97.5	mg/kg		97.5	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	BU	0.975	mg/kg		0.975	SW846-6020
Vanadium		14.8	mg/kg		2.44	SW846-6010B
Zinc	U	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0068	pCi/g	0.0068	0.0383	RL-7128
Alpha activity		4.62	pCi/g	1.43	1.35	RL-7111
Americium-241	U	-0.0045	pCi/g	0.0054	0.0212	RL-7128
Beta activity		3.53	pCi/g	0.601	1.52	RL-7111
Cesium-137	U	-0.0405	pCi/g	0.081	0.0498	RL-7124
Cobalt-60	U	-0.0032	pCi/g	0.0064	0.0441	RL-7124
Neptunium-237	U	-0.0038	pCi/g	0.0042	0.0422	RL-7128
Plutonium-238	U	0.0031	pCi/g	0.0056	0.018	RL-7128
Plutonium-239/240	U	-0.0012	pCi/g	0.0042	0.019	RL-7128
Technetium-99	U	0.445	pCi/g	1.17	1.8	RL-7100
Thorium-228		0.388	pCi/g	0.0605	0.0778	RL-7128
Thorium-230		0.323	pCi/g	0.0585	0.237	RL-7128
Thorium-232		0.451	pCi/g	0.0628	0.166	RL-7128
Thorium-234	U	1.66	pCi/g	3.33	0.864	RL-7124

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BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.453	pCi/g	0.463	0.297	RL-7128
Uranium-234	U	0.121	pCi/g	0.0332	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.325	pCi/g	0.0474	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	U	5.02	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003002SA030

Collected: 4/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5420	mg/kg		19	SW846-6010B
Antimony	U	9.65	mg/kg		9.65	SW846-6010B
Arsenic		3.32	mg/kg		0.949	SW846-6020
Barium		14.8	mg/kg		2.37	SW846-6010B
Beryllium	UX	0.475	mg/kg		0.475	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium		665	mg/kg		94.9	SW846-6010B
Chromium		4.41	mg/kg		2.37	SW846-6010B
Cobalt	U	2.37	mg/kg		2.37	SW846-6010B
Copper	J	3.42	mg/kg		2.37	SW846-6020
Iron		14800	mg/kg		19	SW846-6010B
Lead		5.39	mg/kg		0.949	SW846-6020
Magnesium		374	mg/kg		4.75	SW846-6010B
Manganese	*N	41.6	mg/kg		2.37	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel	U	4.75	mg/kg		4.75	SW846-6010B
Selenium	U	0.949	mg/kg		0.949	SW846-6020
Silver	UX	2.37	mg/kg		2.37	SW846-6010B
Sodium	U	94.9	mg/kg		94.9	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	BU	0.949	mg/kg		0.949	SW846-6020
Vanadium		19.6	mg/kg		2.37	SW846-6010B
Zinc	U	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00853	pCi/g	0.0099	0.039	RL-7128
Alpha activity		3.57	pCi/g	1.21	1.27	RL-7111
Americium-241	U	-0.0034	pCi/g	0.0089	0.022	RL-7128
Beta activity		2.44	pCi/g	0.454	1.49	RL-7111
Cesium-137	U	0.00168	pCi/g	0.0034	0.0596	RL-7124
Cobalt-60	U	-0.0134	pCi/g	0.0269	0.0325	RL-7124
Neptunium-237	U	-0.0095	pCi/g	0.0073	0.042	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0	0.0183	RL-7128
Plutonium-239/240	U	-0.0016	pCi/g	0.0034	0.0193	RL-7128
Technetium-99	U	-0.372	pCi/g	1.15	1.8	RL-7100
Thorium-228		0.201	pCi/g	0.05	0.0791	RL-7128
Thorium-230	U	0.143	pCi/g	0.047	0.237	RL-7128
Thorium-232		0.218	pCi/g	0.0487	0.166	RL-7128
Thorium-234	U	1.06	pCi/g	2.13	0.975	RL-7124

003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.187	pCi/g	0.223	0.299	RL-7128
Uranium-234	U	0.0872	pCi/g	0.0334	0.133	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0912	pCi/g	0.0332	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	U	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	U	4.97	ug/kg		4.97	SW846-8260
Acrolein	U	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	U	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg		9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	U	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003002SA045

Collected: 4/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4370	mg/kg		18.2	SW846-6010B
Antimony	U	9.62	mg/kg		9.62	SW846-6010B
Arsenic		2.39	mg/kg		0.912	SW846-6020
Barium		19.4	mg/kg		2.28	SW846-6010B
Beryllium	UX	0.456	mg/kg		0.456	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium		653	mg/kg		91.2	SW846-6010B
Chromium		4.95	mg/kg		2.28	SW846-6010B
Cobalt	U	2.28	mg/kg		2.28	SW846-6010B
Copper	J	3.69	mg/kg		2.28	SW846-6020
Iron		9840	mg/kg		18.2	SW846-6010B
Lead		4.66	mg/kg		0.912	SW846-6020
Magnesium		322	mg/kg		4.56	SW846-6010B
Manganese	*N	35.2	mg/kg		2.28	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel	U	4.56	mg/kg		4.56	SW846-6010B
Selenium	U	0.912	mg/kg		0.912	SW846-6020
Silver	UX	2.28	mg/kg		2.28	SW846-6010B
Sodium	U	91.2	mg/kg		91.2	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	BU	0.912	mg/kg		0.912	SW846-6020
Vanadium		15.8	mg/kg		2.28	SW846-6010B
Zinc	U	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.011	pCi/g	0.0099	0.04	RL-7128
Alpha activity		4.1	pCi/g	1.3	1.28	RL-7111
Americium-241	U	-0.002	pCi/g	0.0121	0.0272	RL-7128
Beta activity		4.59	pCi/g	0.721	1.49	RL-7111
Cesium-137	U	0.00332	pCi/g	0.0066	0.0475	RL-7124
Cobalt-60	U	0.00019	pCi/g	0.0004	0.0464	RL-7124
Neptunium-237	U	-0.0059	pCi/g	1E-09	0.0407	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0	0.0178	RL-7128
Plutonium-239/240	U	-0.0015	pCi/g	0.0036	0.0182	RL-7128
Technetium-99	U	0.784	pCi/g	1.18	1.8	RL-7100
Thorium-228		0.211	pCi/g	0.0604	0.0816	RL-7128
Thorium-230	U	0.166	pCi/g	0.058	0.241	RL-7128
Thorium-232		0.27	pCi/g	0.063	0.17	RL-7128
Thorium-234	U	1.49	pCi/g	2.98	0.882	RL-7124

003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.284	pCi/g	0.265	0.301	RL-7128
Uranium-234		0.144	pCi/g	0.0403	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.129	pCi/g	0.0379	0.128	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	U	4.96	ug/kg		4.96	SW846-8260
Acrolein	U	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg		9.93	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB1

003002SA060

Collected: 4/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5640	mg/kg		17.8	SW846-6010B
Antimony	U	9.25	mg/kg		9.25	SW846-6010B
Arsenic	U	0.89	mg/kg		0.89	SW846-6020
Barium		38.5	mg/kg		2.23	SW846-6010B
Beryllium	UX	0.445	mg/kg		0.445	SW846-6010B
Cadmium	U	1.78	mg/kg		1.78	SW846-6010B
Calcium		941	mg/kg		89	SW846-6010B
Chromium		9.85	mg/kg		2.23	SW846-6010B
Cobalt	U	2.23	mg/kg		2.23	SW846-6010B
Copper	J	2.9	mg/kg		2.23	SW846-6020
Iron		5000	mg/kg		17.8	SW846-6010B
Lead		2.94	mg/kg		0.89	SW846-6020
Magnesium		638	mg/kg		4.45	SW846-6010B
Manganese	*N	9.12	mg/kg		2.23	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.23	mg/kg		2.23	SW846-6010B
Nickel		4.54	mg/kg		4.45	SW846-6010B
Selenium	U	0.89	mg/kg		0.89	SW846-6020
Silver	UX	2.23	mg/kg		2.23	SW846-6010B
Sodium	U	89	mg/kg		89	SW846-6010B
Thallium	U	1.78	mg/kg		1.78	SW846-6020
Uranium	BU	0.89	mg/kg		0.89	SW846-6020
Vanadium		6.83	mg/kg		2.23	SW846-6010B
Zinc		18.2	mg/kg		17.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0183	pCi/g	0.0116	0.0381	RL-7128
Alpha activity		5.01	pCi/g	1.62	1.67	RL-7111
Americium-241	U	-0.0037	pCi/g	0.0078	0.0247	RL-7128
Beta activity		4.98	pCi/g	0.778	1.59	RL-7111
Cesium-137	U	-0.0113	pCi/g	0.0227	0.0472	RL-7124
Cobalt-60	U	-0.0253	pCi/g	0.0506	0.0433	RL-7124
Neptunium-237	U	-0.0022	pCi/g	0.0074	0.0412	RL-7128
Plutonium-238	U	0.00431	pCi/g	0.0061	0.0175	RL-7128
Plutonium-239/240	U	-0.0014	pCi/g	0.0039	0.0176	RL-7128
Technetium-99	U	1.02	pCi/g	1.19	1.8	RL-7100
Thorium-228		0.39	pCi/g	0.0609	0.0779	RL-7128
Thorium-230	U	0.207	pCi/g	0.0492	0.237	RL-7128
Thorium-232		0.405	pCi/g	0.06	0.166	RL-7128
Thorium-234	U	1.71	pCi/g	3.43	0.946	RL-7124

*QUALIFIER Codes See attached List.

003-002

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB1

Uranium	U	0.329	pCi/g	0.222	0.297	RL-7128
Uranium-234		0.211	pCi/g	0.0417	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0998	pCi/g	0.0318	0.127	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	U	5.02	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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12/18/2007

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SA010

Collected: 4/12/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6450	mg/kg		17.7	SW846-6010B
Antimony	U	7.73	mg/kg		7.73	SW846-6010B
Arsenic		2.47	mg/kg		0.884	SW846-6020
Barium		78.8	mg/kg		2.21	SW846-6010B
Beryllium	UX	0.442	mg/kg		0.442	SW846-6010B
Cadmium	U	1.77	mg/kg		1.77	SW846-6010B
Calcium		1190	mg/kg		88.4	SW846-6010B
Chromium		10.3	mg/kg		2.21	SW846-6010B
Cobalt		5.78	mg/kg		2.21	SW846-6010B
Copper	J	6.19	mg/kg		2.21	SW846-6020
Iron		8600	mg/kg		17.7	SW846-6010B
Lead		6.5	mg/kg		0.884	SW846-6020
Magnesium		1260	mg/kg		4.42	SW846-6010B
Manganese	*N	342	mg/kg		2.21	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.21	mg/kg		2.21	SW846-6010B
Nickel		9.58	mg/kg		4.42	SW846-6010B
Selenium	U	0.884	mg/kg		0.884	SW846-6020
Silver	UX	2.21	mg/kg		2.21	SW846-6010B
Sodium		128	mg/kg		88.4	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium	BU	0.884	mg/kg		0.884	SW846-6020
Vanadium		13.4	mg/kg		2.21	SW846-6010B
Zinc		24.5	mg/kg		17.7	SW846-6010B
PPCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0133	pCi/g	0.0094	0.0374	RL-7128
Alpha activity		2.5	pCi/g	1.06	1.33	RL-7111
Americium-241	U	-0.0133	pCi/g	0.004	0.0228	RL-7128
Beta activity		2.23	pCi/g	0.467	1.41	RL-7111
Cesium-137	U	0.00121	pCi/g	0.0024	0.0505	RL-7124
Cobalt-60	U	-0.0029	pCi/g	0.0058	0.0568	RL-7124
Neptunium-237	U	-0.0116	pCi/g	0.0099	0.0418	RL-7128
Plutonium-238	U	-0.0031	pCi/g	0.0026	0.0179	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0004	0.0177	RL-7128
Technetium-99	U	0.604	pCi/g	1.21	1.85	RL-7100
Thorium-228		0.258	pCi/g	0.0529	0.0787	RL-7128
Thorium-230	U	0.147	pCi/g	0.046	0.237	RL-7128
Thorium-232		0.25	pCi/g	0.0499	0.166	RL-7128
Thorium-234	U	1.21	pCi/g	2.42	0.877	RL-7124

*QUALIFIER Codes See attached List.

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.0648	pCi/g	0.0508	0.3	RL-7128
Uranium-234	U	0.0322	pCi/g	0.0249	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0193	pCi/g	0.0212	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
2-Butanone	U	5.03	ug/kg		5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg		5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg		5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg		5.03	SW846-8260
Acetone	JU	5.03	ug/kg		5.03	SW846-8260
Acrolein	U	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg		5.03	SW846-8260
Benzene	U	5.03	ug/kg		5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg		5.03	SW846-8260
Bromoform	U	5.03	ug/kg		5.03	SW846-8260
Bromomethane	U	5.03	ug/kg		5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg		5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg		5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg		5.03	SW846-8260
Chloroethane	U	5.03	ug/kg		5.03	SW846-8260
Chloroform	U	5.03	ug/kg		5.03	SW846-8260
Chloromethane	U	5.03	ug/kg		5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg		5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg		5.03	SW846-8260
Dichlorodifluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg		5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
Iodomethane	U	5.03	ug/kg		5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg		5.03	SW846-8260
Styrene	U	5.03	ug/kg		5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg		5.03	SW846-8260
Toluene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg		5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg		5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg		5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg		5.03	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SA015

Collected: 4/12/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	6480	mg/kg		14.4	SW846-6010B
Antimony	U	9.95	mg/kg		9.95	SW846-6010B
Arsenic		5.19	mg/kg		0.722	SW846-6020
Barium	X	53.7	mg/kg		1.8	SW846-6010B
Beryllium	X	0.512	mg/kg		0.361	SW846-6010B
Cadmium	U	1.44	mg/kg		1.44	SW846-6010B
Calcium	X	1000	mg/kg		72.2	SW846-6010B
Chromium	X	25.8	mg/kg		1.8	SW846-6010B
Cobalt	X	7.88	mg/kg		1.8	SW846-6010B
Copper		8.69	mg/kg		1.8	SW846-6020
Iron	*X	16800	mg/kg		14.4	SW846-6010B
Lead		14.2	mg/kg		0.722	SW846-6020
Magnesium	X	716	mg/kg		3.61	SW846-6010B
Manganese	X	638	mg/kg		1.8	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	1.8	mg/kg		1.8	SW846-6010B
Nickel	X	7.27	mg/kg		3.61	SW846-6010B
Selenium	U	0.722	mg/kg		0.722	SW846-6020
Silver	*NUX	1.8	mg/kg		1.8	SW846-6010B
Sodium	UX	72.2	mg/kg		72.2	SW846-6010B
Thallium	U	1.44	mg/kg		1.44	SW846-6020
Uranium		5.18	mg/kg		0.722	SW846-6020
Vanadium	X	24.9	mg/kg		1.8	SW846-6010B
Zinc	UX	14.4	mg/kg		14.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0113	pCi/g	0.0102	0.0383	RL-7128
Alpha activity		4.28	pCi/g	1.47	1.39	RL-7111
Americium-241	U	-0.0083	pCi/g	0.0044	0.0225	RL-7128
Beta activity		3.56	pCi/g	0.661	1.44	RL-7111
Cesium-137	U	0.00805	pCi/g	0.0161	0.0481	RL-7124
Cobalt-60	U	-0.0057	pCi/g	0.0114	0.0436	RL-7124
Neptunium-237	U	-0.0005	pCi/g	0.0091	0.0412	RL-7128
Plutonium-238	U	0.00452	pCi/g	0.0063	0.0178	RL-7128
Plutonium-239/240	U	-0.0017	pCi/g	0.0032	0.0169	RL-7128
Technetium-99		2.4	pCi/g	1.24	1.85	RL-7100
Thorium-228		0.282	pCi/g	0.0558	0.0791	RL-7128
Thorium-230	U	0.176	pCi/g	0.0481	0.238	RL-7128
Thorium-232		0.277	pCi/g	0.0526	0.166	RL-7128
Thorium-234	U	1.25	pCi/g	2.5	0.867	RL-7124

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.101	pCi/g	0.0971	0.302	RL-7128
Uranium-234	U	0.0386	pCi/g	0.0274	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0508	pCi/g	0.027	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	U	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SA030

Collected: 4/12/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	X	5490	mg/kg		16.6	SW846-6010B
Antimony	U	9.74	mg/kg		9.74	SW846-6010B
Arsenic	U	0.831	mg/kg		0.831	SW846-6020
Barium	X	12.5	mg/kg		2.08	SW846-6010B
Beryllium	BUX	0.416	mg/kg		0.416	SW846-6010B
Cadmium	U	1.66	mg/kg		1.66	SW846-6010B
Calcium	X	546	mg/kg		83.1	SW846-6010B
Chromium	X	6.33	mg/kg		2.08	SW846-6010B
Cobalt	UX	2.08	mg/kg		2.08	SW846-6010B
Copper		2.49	mg/kg		2.08	SW846-6020
Iron	*X	5620	mg/kg		16.6	SW846-6010B
Lead		4.75	mg/kg		0.831	SW846-6020
Magnesium	X	319	mg/kg		4.16	SW846-6010B
Manganese	X	26	mg/kg		2.08	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.08	mg/kg		2.08	SW846-6010B
Nickel	UX	4.16	mg/kg		4.16	SW846-6010B
Selenium	U	0.831	mg/kg		0.831	SW846-6020
Silver	*NUX	2.08	mg/kg		2.08	SW846-6010B
Sodium	UX	83.1	mg/kg		83.1	SW846-6010B
Thallium	U	1.66	mg/kg		1.66	SW846-6020
Uranium	U	0.831	mg/kg		0.831	SW846-6020
Vanadium	X	14.8	mg/kg		2.08	SW846-6010B
Zinc	UX	16.6	mg/kg		16.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00828	pCi/g	0.0096	0.0389	RL-7128
Alpha activity		4.85	pCi/g	1.51	1.25	RL-7111
Americium-241	U	-0.0087	pCi/g	0.0036	0.0224	RL-7128
Beta activity		2	pCi/g	0.425	1.33	RL-7111
Cesium-137	U	-0.0275	pCi/g	0.0549	0.0437	RL-7124
Cobalt-60	U	0.0264	pCi/g	0.0528	0.0487	RL-7124
Neptunium-237	U	-0.0083	pCi/g	0.0047	0.0406	RL-7128
Plutonium-238	U	-0.0060	pCi/g	0.0049	0.0181	RL-7128
Plutonium-239/240	U	-0.0061	pCi/g	0.004	0.0179	RL-7128
Technetium-99	U	1.02	pCi/g	1.21	1.85	RL-7100
Thorium-228		0.213	pCi/g	0.0486	0.0786	RL-7128
Thorium-230	U	0.123	pCi/g	0.0439	0.237	RL-7128
Thorium-232		0.292	pCi/g	0.0536	0.166	RL-7128
Thorium-234	U	1	pCi/g	2	0.91	RL-7124

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.142	pCi/g	0.17	0.303	RL-7128
Uranium-234	U	0.0734	pCi/g	0.0321	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0603	pCi/g	0.0284	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
2-Butanone	U	5.03	ug/kg		5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg		5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg		5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg		5.03	SW846-8260
Acetone	JU	5.03	ug/kg		5.03	SW846-8260
Acrolein	U	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg		5.03	SW846-8260
Benzene	U	5.03	ug/kg		5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg		5.03	SW846-8260
Bromoform	U	5.03	ug/kg		5.03	SW846-8260
Bromomethane	U	5.03	ug/kg		5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg		5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg		5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg		5.03	SW846-8260
Chloroethane	U	5.03	ug/kg		5.03	SW846-8260
Chloroform	U	5.03	ug/kg		5.03	SW846-8260
Chloromethane	U	5.03	ug/kg		5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg		5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg		5.03	SW846-8260
Dichlorodifluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg		5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
Iodomethane	U	5.03	ug/kg		5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg		5.03	SW846-8260
Styrene	U	5.03	ug/kg		5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg		5.03	SW846-8260
Toluene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg		5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg		5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg		5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg		5.03	SW846-8260

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003WA060

Collected: 4/13/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		59	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.01	mg/L		0.01	SW846-6020
Barium	N	0.127	mg/L		0.005	SW846-6020
Beryllium	X	0.00135	mg/L		0.001	SW846-6020
Cadmium	X	0.00071	mg/L		0.0006	SW846-6020
Calcium		37.8	mg/L		1	SW846-6010B
Chromium	NU	0.1	mg/L		0.1	SW846-6020
Cobalt	NX	0.0118	mg/L		0.01	SW846-6020
Copper	NUX	0.2	mg/L		0.2	SW846-6020
Iron		43.5	mg/L		0.05	SW846-6010B
Lead		0.0153	mg/L		0.0013	SW846-6020
Magnesium	N	20.2	mg/L		0.025	SW846-6010B
Manganese	X	1.45	mg/L		0.05	SW846-6020
Mercury	X	2.6E-05	mg/L		1E-05	SW846-7470A
Molybdenum		0.0184	mg/L		0.001	SW846-6020
Nickel	NU	0.05	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		76	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00178	mg/L		0.001	SW846-6020
Vanadium	NU	0.2	mg/L		0.2	SW846-6020
Zinc	JNUX	0.2	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00129	mg/L		0.001	SW846-6020
Barium, Dissolved		0.0445	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		35.2	mg/L		1	SW846-6010B
Chromium, Dissolved	NUX	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.00691	mg/L		0.001	SW846-6020
Copper, Dissolved	NUX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		14	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		16.3	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	1.14	mg/L		0.005	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0191	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0122	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		77	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NUX	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	JNX	0.0227	mg/L		0.02	SW846-6020

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

PPCB						
PCB-1016	U	0.1	ug/L	0.1	SW846-8082	
PCB-1221	U	0.1	ug/L	0.1	SW846-8082	
PCB-1232	U	0.1	ug/L	0.1	SW846-8082	
PCB-1242	U	0.1	ug/L	0.1	SW846-8082	
PCB-1248	U	0.1	ug/L	0.1	SW846-8082	
PCB-1254	U	0.1	ug/L	0.1	SW846-8082	
PCB-1260	U	0.1	ug/L	0.1	SW846-8082	
PCB-1268	U	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	0.0514	pCi/L	0.0402	0.0543	RL-7128
Alpha activity	X	8.46	pCi/L	1.5	3.08	SW846-9310
Americium-241	U	-0.0139	pCi/L	0.0111	0.0624	RL-7128
Beta activity		19.7	pCi/L	1.21	3	SW846-9310
Cesium-137	UX	-0.51	pCi/L	1.02	1.49	RL-7124
Neptunium-237	U	0.00335	pCi/L	0.0136	0.0595	RL-7128
Plutonium-238		0.0508	pCi/L	0.0298	0.0442	RL-7128
Plutonium-239/240	U	0.0227	pCi/L	0.0206	0.0477	RL-7128
Technetium-99	B	8.72	pCi/L	0.677	0.795	RL-7100
Thorium-228		0.632	pCi/L	0.0966	0.121	RL-7128
Thorium-230		0.405	pCi/L	0.0841	0.168	RL-7128
Thorium-232		0.478	pCi/L	0.0843	0.0781	RL-7128
Thorium-234	U	-18.5	pCi/L	37	26	RL-7124
Uranium		3.3	pCi/L	2.56	0.586	RL-7128
Uranium-234		2.33	pCi/L	0.183	0.446	RL-7128
Uranium-238		0.912	pCi/L	0.114	0.0852	RL-7128
RADS-D						
Activity of U-235	U	0.018	pCi/L	0.02	0.0457	RL-7128
Uranium-234	U	0.206	pCi/L	0.057	0.445	RL-7128
Uranium-238		0.158	pCi/L	0.0473	0.0832	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/L	5	SW846-8260	
1,1,1-Trichloroethane	U	5	ug/L	5	SW846-8260	
1,1,2,2-Tetrachloroethane	U	5	ug/L	5	SW846-8260	
1,1,2-Trichloroethane	U	5	ug/L	5	SW846-8260	
1,1-Dichloroethane	U	5	ug/L	5	SW846-8260	
1,1-Dichloroethene	U	5	ug/L	5	SW846-8260	
1,2,3-Trichloropropane	U	5	ug/L	5	SW846-8260	
1,2-Dibromoethane	U	5	ug/L	5	SW846-8260	
1,2-Dichloroethane	U	5	ug/L	5	SW846-8260	
1,2-Dichloropropane	U	5	ug/L	5	SW846-8260	
1,2-Dimethylbenzene	U	5	ug/L	5	SW846-8260	
2-Butanone	U	10	ug/L	10	SW846-8260	
2-Chloroethyl vinyl ether	U	10	ug/L	10	SW846-8260	
2-Hexanone	U	10	ug/L	10	SW846-8260	
4-Methyl-2-pentanone	JU	10	ug/L	10	SW846-8260	
Acetone	U	10	ug/L	10	SW846-8260	
Acrolein	U	10	ug/L	10	SW846-8260	
Acrylonitrile	U	10	ug/L	10	SW846-8260	
Benzene	U	5	ug/L	5	SW846-8260	
Bromodichloromethane	U	5	ug/L	5	SW846-8260	
Bromoform	U	5	ug/L	5	SW846-8260	
Bromomethane	U	5	ug/L	5	SW846-8260	
Carbon disulfide	U	5	ug/L	5	SW846-8260	

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BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		42 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SA045

Collected: 4/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	2820	mg/kg		16.6	SW846-6010B
Antimony	U	9.84	mg/kg		9.84	SW846-6010B
Arsenic		2.61	mg/kg		0.828	SW846-6020
Barium	X	19.9	mg/kg		2.07	SW846-6010B
Beryllium	BUX	0.414	mg/kg		0.414	SW846-6010B
Cadmium	U	1.66	mg/kg		1.66	SW846-6010B
Calcium	X	584	mg/kg		82.8	SW846-6010B
Chromium	X	6.04	mg/kg		2.07	SW846-6010B
Cobalt	X	10.7	mg/kg		2.07	SW846-6010B
Copper		2.34	mg/kg		2.07	SW846-6020
Iron	*X	5310	mg/kg		16.6	SW846-6010B
Lead		6.11	mg/kg		0.828	SW846-6020
Magnesium	X	266	mg/kg		4.14	SW846-6010B
Manganese	X	59	mg/kg		2.07	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.07	mg/kg		2.07	SW846-6010B
Nickel	UX	4.14	mg/kg		4.14	SW846-6010B
Selenium	U	0.828	mg/kg		0.828	SW846-6020
Silver	*NUX	2.07	mg/kg		2.07	SW846-6010B
Sodium	UX	82.8	mg/kg		82.8	SW846-6010B
Thallium	U	1.66	mg/kg		1.66	SW846-6020
Uranium	U	0.828	mg/kg		0.828	SW846-6020
Vanadium	X	8.26	mg/kg		2.07	SW846-6010B
Zinc	UX	16.6	mg/kg		16.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0041	pCi/g	0.0074	0.0402	RL-7128
Alpha activity		2.55	pCi/g	1.06	1.26	RL-7111
Americium-241	U	-0.0073	pCi/g	0.0046	0.0225	RL-7128
Beta activity	U	1.07	pCi/g	0.257	1.34	RL-7111
Cesium-137	U	-0.0308	pCi/g	0.0616	0.0371	RL-7124
Cobalt-60	U	0.00918	pCi/g	0.0184	0.0432	RL-7124
Neptunium-237	U	-0.0053	pCi/g	0.0013	0.042	RL-7128
Plutonium-238	U	7.2E-06	pCi/g	0.0036	0.0177	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0004	0.0181	RL-7128
Technetium-99	U	0.417	pCi/g	1.2	1.85	RL-7100
Thorium-228		0.162	pCi/g	0.0491	0.08	RL-7128
Thorium-230	U	0.0782	pCi/g	0.0426	0.238	RL-7128
Thorium-232		0.197	pCi/g	0.0516	0.168	RL-7128
Thorium-234	U	1.08	pCi/g	2.16	0.834	RL-7124

*QUALIFIER Codes See attached List.

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.11	pCi/g	0.202	0.304	RL-7128
Uranium-234	U	0.0735	pCi/g	0.0319	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0324	pCi/g	0.0251	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	U	5.02	ug/kg		5.02	SW846-8260
Acrolein	U	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene		15.2	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SA060

Collected: 4/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	8060	mg/kg		19.3	SW846-6010B
Antimony	U	9.45	mg/kg		9.45	SW846-6010B
Arsenic		1.28	mg/kg		0.967	SW846-6020
Barium	X	66.1	mg/kg		2.42	SW846-6010B
Beryllium	X	0.619	mg/kg		0.484	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium	X	1350	mg/kg		96.7	SW846-6010B
Chromium	X	18.1	mg/kg		2.42	SW846-6010B
Cobalt	UX	2.42	mg/kg		2.42	SW846-6010B
Copper		8.8	mg/kg		2.42	SW846-6020
Iron	*X	15600	mg/kg		19.3	SW846-6010B
Lead		7.7	mg/kg		0.967	SW846-6020
Magnesium	X	1520	mg/kg		4.84	SW846-6010B
Manganese	X	34.8	mg/kg		2.42	SW846-6010B
Mercury		0.022	mg/kg		0.019	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	X	10.7	mg/kg		4.84	SW846-6010B
Selenium	U	0.967	mg/kg		0.967	SW846-6020
Silver	*NUX	2.42	mg/kg		2.42	SW846-6010B
Sodium	UX	96.7	mg/kg		96.7	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium	U	0.967	mg/kg		0.967	SW846-6020
Vanadium	X	13.4	mg/kg		2.42	SW846-6010B
Zinc	X	48.2	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0306	pCi/g	0.0148	0.0388	RL-7128
Alpha activity		7.65	pCi/g	2.31	1.84	RL-7111
Americium-241	U	-0.0052	pCi/g	0.0074	0.0232	RL-7128
Beta activity		3.29	pCi/g	0.642	1.58	RL-7111
Cesium-137	U	-0.0023	pCi/g	0.0047	0.0575	RL-7124
Cobalt-60	U	0.0307	pCi/g	0.0614	0.0568	RL-7124
Neptunium-237	U	-0.0051	pCi/g	0.0017	0.042	RL-7128
Plutonium-238	U	-0.0041	pCi/g	0.0047	0.018	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0	0.0177	RL-7128
Technetium-99	U	1.07	pCi/g	1.22	1.85	RL-7100
Thorium-228		0.451	pCi/g	0.0673	0.0784	RL-7128
Thorium-230		0.268	pCi/g	0.0561	0.238	RL-7128
Thorium-232		0.454	pCi/g	0.0659	0.166	RL-7128
Thorium-234	U	2.08	pCi/g	4.16	0.964	RL-7124

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium		0.371	pCi/g	0.198	0.302	RL-7128
Uranium-234		0.198	pCi/g	0.0408	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.143	pCi/g	0.0349	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	U	5.01	ug/kg		5.01	SW846-8260
Acrolein	U	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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12/18/2007

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003003SD060

Collected: 4/16/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	5950	mg/kg		19.4	SW846-6010B
Antimony	U	9.84	mg/kg		9.84	SW846-6010B
Arsenic		1.14	mg/kg		0.971	SW846-6020
Barium	X	50.1	mg/kg		2.43	SW846-6010B
Beryllium	X	0.612	mg/kg		0.486	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium	X	1190	mg/kg		97.1	SW846-6010B
Chromium	X	12.1	mg/kg		2.43	SW846-6010B
Cobalt	UX	2.43	mg/kg		2.43	SW846-6010B
Copper		6.88	mg/kg		2.43	SW846-6020
Iron	*X	12400	mg/kg		19.4	SW846-6010B
Lead		4.66	mg/kg		0.971	SW846-6020
Magnesium	X	1210	mg/kg		4.86	SW846-6010B
Manganese	X	26.8	mg/kg		2.43	SW846-6010B
Mercury		0.024	mg/kg		0.02	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel	X	8.97	mg/kg		4.86	SW846-6010B
Selenium	U	0.971	mg/kg		0.971	SW846-6020
Silver	*NUX	2.43	mg/kg		2.43	SW846-6010B
Sodium	UX	97.1	mg/kg		97.1	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.971	mg/kg		0.971	SW846-6020
Vanadium	X	8.79	mg/kg		2.43	SW846-6010B
Zinc	X	41.2	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0103	pCi/g	0.0101	0.0376	RL-7128
Alpha activity		5.68	pCi/g	1.84	1.61	RL-7111
Americium-241	U	-0.0036	pCi/g	0.008	0.0226	RL-7128
Beta activity		3.39	pCi/g	0.649	1.52	RL-7111
Cesium-137	U	-0.0195	pCi/g	0.0389	0.0591	RL-7124
Cobalt-60	U	-0.0137	pCi/g	0.0273	0.0398	RL-7124
Neptunium-237	U	-0.0032	pCi/g	0.0056	0.0455	RL-7128
Plutonium-238	U	0.00468	pCi/g	0.0065	0.018	RL-7128
Plutonium-239/240	U	-0.0058	pCi/g	0.0051	0.018	RL-7128
Technetium-99	U	0.195	pCi/g	1.21	1.85	RL-7100
Thorium-228		0.496	pCi/g	0.0653	0.0776	RL-7128
Thorium-230		0.407	pCi/g	0.0618	0.236	RL-7128
Thorium-232		0.472	pCi/g	0.0624	0.166	RL-7128
Thorium-234	U	1.75	pCi/g	3.51	1	RL-7124

003-003

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.45	pCi/g	0.449	0.3	RL-7128
Uranium-234		0.249	pCi/g	0.0423	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.19	pCi/g	0.0367	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	U	4.98	ug/kg		4.98	SW846-8260
Acrolein	U	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg		9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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12/18/2007

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004SA010

Collected: 4/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	11300	mg/kg		19.8	SW846-6010B
Antimony	U	9.8	mg/kg		9.8	SW846-6010B
Arsenic		3.81	mg/kg		0.988	SW846-6020
Barium	X	50.9	mg/kg		2.47	SW846-6010B
Beryllium	BUX	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium	X	1080	mg/kg		98.8	SW846-6010B
Chromium	X	13	mg/kg		2.47	SW846-6010B
Cobalt	X	4.25	mg/kg		2.47	SW846-6010B
Copper		15.9	mg/kg		2.47	SW846-6020
Iron	*X	25700	mg/kg		19.8	SW846-6010B
Lead		7.95	mg/kg		0.988	SW846-6020
Magnesium	X	1240	mg/kg		4.94	SW846-6010B
Manganese	X	279	mg/kg		2.47	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	X	13.5	mg/kg		4.94	SW846-6010B
Selenium	U	0.988	mg/kg		0.988	SW846-6020
Silver	*NUX	2.47	mg/kg		2.47	SW846-6010B
Sodium	X	249	mg/kg		98.8	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium		1.78	mg/kg		0.988	SW846-6020
Vanadium	X	11.1	mg/kg		2.47	SW846-6010B
Zinc	X	40.4	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0155	pCi/g	0.0098	0.0373	RL-7128
Alpha activity		5.37	pCi/g	1.87	1.79	RL-7111
Americium-241	U	-0.0088	pCi/g	0.0034	0.0221	RL-7128
Beta activity		3.49	pCi/g	0.669	1.57	RL-7111
Cesium-137	U	-0.0184	pCi/g	0.0368	0.0496	RL-7124
Cobalt-60	U	-0.0087	pCi/g	0.0174	0.0486	RL-7124
Neptunium-237	U	-0.0032	pCi/g	0.0054	0.0422	RL-7128
Plutonium-238	U	0.00163	pCi/g	0.0048	0.018	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0005	0.018	RL-7128
Technetium-99	U	0.5	pCi/g	1.2	1.85	RL-7100
Thorium-228		0.331	pCi/g	0.0599	0.0788	RL-7128
Thorium-230		0.371	pCi/g	0.0654	0.238	RL-7128
Thorium-232		0.364	pCi/g	0.06	0.167	RL-7128
Thorium-234	U	1.12	pCi/g	2.24	0.87	RL-7124

*QUALIFIER Codes See attached List.

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.335	pCi/g	0.223	0.299	RL-7128
Uranium-234	U	0.119	pCi/g	0.0319	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.2	pCi/g	0.0367	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
2-Butanone	U	5.03	ug/kg		5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg		5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg		5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg		5.03	SW846-8260
Acetone	U	5.03	ug/kg		5.03	SW846-8260
Acrolein	U	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg		5.03	SW846-8260
Benzene	U	5.03	ug/kg		5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg		5.03	SW846-8260
Bromoform	U	5.03	ug/kg		5.03	SW846-8260
Bromomethane	U	5.03	ug/kg		5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg		5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg		5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg		5.03	SW846-8260
Chloroethane	U	5.03	ug/kg		5.03	SW846-8260
Chloroform	U	5.03	ug/kg		5.03	SW846-8260
Chloromethane	U	5.03	ug/kg		5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg		5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg		5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg		5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg		5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
Iodomethane	U	5.03	ug/kg		5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg		5.03	SW846-8260
Styrene	U	5.03	ug/kg		5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg		5.03	SW846-8260
Toluene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg		5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg		5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg		5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg		5.03	SW846-8260

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12/18/2007

003-004

BGOU07-SWMU3A Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004SA015

Collected: 4/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	8470	mg/kg		19.4	SW846-6010B
Antimony	U	9.72	mg/kg		9.72	SW846-6010B
Arsenic		1.46	mg/kg		0.971	SW846-6020
Barium	X	80.7	mg/kg		2.43	SW846-6010B
Beryllium	BUX	0.486	mg/kg		0.486	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium	X	1120	mg/kg		97.1	SW846-6010B
Chromium	X	12.6	mg/kg		2.43	SW846-6010B
Cobalt	X	3.49	mg/kg		2.43	SW846-6010B
Copper		6.31	mg/kg		2.43	SW846-6020
Iron	*X	8410	mg/kg		19.4	SW846-6010B
Lead		6.21	mg/kg		0.971	SW846-6020
Magnesium	X	960	mg/kg		4.86	SW846-6010B
Manganese	X	80.5	mg/kg		2.43	SW846-6010B
Mercury	B	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel	X	10	mg/kg		4.86	SW846-6010B
Selenium	U	0.971	mg/kg		0.971	SW846-6020
Silver	*NUX	2.43	mg/kg		2.43	SW846-6010B
Sodium	X	165	mg/kg		97.1	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.971	mg/kg		0.971	SW846-6020
Vanadium	X	13.3	mg/kg		2.43	SW846-6010B
Zinc	X	20.6	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00846	pCi/g	0.0076	0.0379	RL-7128
Alpha activity		4.55	pCi/g	1.52	1.39	RL-7111
Americium-241	U	-0.0101	pCi/g	0.0009	0.0223	RL-7128
Beta activity		4.08	pCi/g	0.727	1.44	RL-7111
Cesium-137	U	-0.0068	pCi/g	0.0137	0.045	RL-7124
Cobalt-60	U	0.0106	pCi/g	0.0212	0.0502	RL-7124
Neptunium-237	U	-0.0062	pCi/g	0.0005	0.0424	RL-7128
Plutonium-238	U	0.00463	pCi/g	0.0064	0.0183	RL-7128
Plutonium-239/240	U	0.0015	pCi/g	0.0055	0.0184	RL-7128
Technetium-99	U	-0.306	pCi/g	1.18	1.85	RL-7100
Thorium-228		0.356	pCi/g	0.0578	0.0783	RL-7128
Thorium-230		0.295	pCi/g	0.0551	0.237	RL-7128
Thorium-232		0.389	pCi/g	0.0581	0.166	RL-7128
Thorium-234	U	1.38	pCi/g	2.75	0.847	RL-7124

*QUALIFIER Codes See attached List.

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.153	pCi/g	0.143	0.301	RL-7128
Uranium-234	U	0.0581	pCi/g	0.028	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0862	pCi/g	0.0297	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	U	4.98	ug/kg		4.98	SW846-8260
Acrolein	U	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg		9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004SA030

Collected: 4/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	X	5670	mg/kg		19.4	SW846-6010B
Antimony	U	9.89	mg/kg		9.89	SW846-6010B
Arsenic		3.02	mg/kg		0.968	SW846-6020
Barium	X	21.3	mg/kg		2.42	SW846-6010B
Beryllium	BUX	0.484	mg/kg		0.484	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium	X	451	mg/kg		96.8	SW846-6010B
Chromium	X	6.09	mg/kg		2.42	SW846-6010B
Cobalt	X	2.67	mg/kg		2.42	SW846-6010B
Copper		3.01	mg/kg		2.42	SW846-6020
Iron	*X	8860	mg/kg		19.4	SW846-6010B
Lead		7.74	mg/kg		0.968	SW846-6020
Magnesium	X	271	mg/kg		4.84	SW846-6010B
Manganese	X	156	mg/kg		2.42	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	UX	4.84	mg/kg		4.84	SW846-6010B
Selenium	U	0.968	mg/kg		0.968	SW846-6020
Silver	*NUX	2.42	mg/kg		2.42	SW846-6010B
Sodium	UX	96.8	mg/kg		96.8	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.968	mg/kg		0.968	SW846-6020
Vanadium	X	14.9	mg/kg		2.42	SW846-6010B
Zinc	UX	19.4	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00591	pCi/g	0.0068	0.0385	RL-7128
Alpha activity		2.06	pCi/g	0.944	1.28	RL-7111
Americium-241	U	-0.0089	pCi/g	0.0032	0.0218	RL-7128
Beta activity	U	1.19	pCi/g	0.282	1.37	RL-7111
Cesium-137	U	-0.0019	pCi/g	0.0037	0.042	RL-7124
Cobalt-60	U	0.00385	pCi/g	0.0077	0.0397	RL-7124
Neptunium-237	U	-0.0076	pCi/g	0.0033	0.0442	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0	0.0171	RL-7128
Plutonium-239/240	U	0.00125	pCi/g	0.0063	0.0179	RL-7128
Technetium-99	U	1.01	pCi/g	1.22	1.85	RL-7100
Thorium-228		0.18	pCi/g	0.0485	0.0791	RL-7128
Thorium-230	U	0.178	pCi/g	0.0512	0.238	RL-7128
Thorium-232		0.234	pCi/g	0.0504	0.167	RL-7128
Thorium-234	U	0.934	pCi/g	1.87	0.796	RL-7124

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BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.149	pCi/g	0.178	0.303	RL-7128
Uranium-234	U	0.062	pCi/g	0.031	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0813	pCi/g	0.031	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	U	5.04	ug/kg		5.04	SW846-8260
Acrolein	U	5.04	ug/kg		5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004SA045

Collected: 4/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	6690	mg/kg		19.6	SW846-6010B
Antimony	U	10	mg/kg		10	SW846-6010B
Arsenic		3.01	mg/kg		0.978	SW846-6020
Barium	X	17.8	mg/kg		2.45	SW846-6010B
Beryllium	BUX	0.489	mg/kg		0.489	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium	X	706	mg/kg		97.8	SW846-6010B
Chromium	X	12.3	mg/kg		2.45	SW846-6010B
Cobalt	UX	2.45	mg/kg		2.45	SW846-6010B
Copper		4.8	mg/kg		2.45	SW846-6020
Iron	*X	18000	mg/kg		19.6	SW846-6010B
Lead		5.42	mg/kg		0.978	SW846-6020
Magnesium	X	354	mg/kg		4.89	SW846-6010B
Manganese	X	95.6	mg/kg		2.45	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel	X	5.04	mg/kg		4.89	SW846-6010B
Selenium	U	0.978	mg/kg		0.978	SW846-6020
Silver	*NUX	2.45	mg/kg		2.45	SW846-6010B
Sodium	UX	97.8	mg/kg		97.8	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium	U	0.978	mg/kg		0.978	SW846-6020
Vanadium	X	17.7	mg/kg		2.45	SW846-6010B
Zinc	UX	19.6	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00233	pCi/g	0.0047	0.0401	RL-7128
Alpha activity		5.1	pCi/g	1.61	1.36	RL-7111
Americium-241	U	-0.0105	pCi/g	0	0.0226	RL-7128
Beta activity		2.56	pCi/g	0.52	1.43	RL-7111
Cesium-137	U	-0.0075	pCi/g	0.015	0.0503	RL-7124
Cobalt-60	U	-0.0229	pCi/g	0.0457	0.0389	RL-7124
Neptunium-237	U	-0.0122	pCi/g	0.0123	0.0463	RL-7128
Plutonium-238	U	-0.0033	pCi/g	0.003	0.0184	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0	0.0183	RL-7128
Technetium-99	U	0.403	pCi/g	1.21	1.85	RL-7100
Thorium-228		0.234	pCi/g	0.0553	0.08	RL-7128
Thorium-230	U	0.108	pCi/g	0.045	0.238	RL-7128
Thorium-232		0.27	pCi/g	0.0553	0.167	RL-7128
Thorium-234	U	1.99	pCi/g	3.99	0.958	RL-7124

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.163	pCi/g	0.329	0.304	RL-7128
Uranium-234	U	0.0897	pCi/g	0.0343	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0706	pCi/g	0.0296	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	U	5	ug/kg		5	SW846-8260
Acrolein	U	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004SA060

Collected: 4/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	5770	mg/kg		18.8	SW846-6010B
Antimony	U	9.52	mg/kg		9.52	SW846-6010B
Arsenic		2.36	mg/kg		0.94	SW846-6020
Barium	X	58.9	mg/kg		2.35	SW846-6010B
Beryllium	X	1.06	mg/kg		0.47	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium	X	1090	mg/kg		94	SW846-6010B
Chromium	X	8.95	mg/kg		2.35	SW846-6010B
Cobalt	X	14.9	mg/kg		2.35	SW846-6010B
Copper		8.39	mg/kg		2.35	SW846-6020
Iron	*X	15600	mg/kg		18.8	SW846-6010B
Lead		6.07	mg/kg		0.94	SW846-6020
Magnesium	X	1190	mg/kg		4.7	SW846-6010B
Manganese	X	175	mg/kg		2.35	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	X	12.3	mg/kg		4.7	SW846-6010B
Selenium	U	0.94	mg/kg		0.94	SW846-6020
Silver	*NUX	2.35	mg/kg		2.35	SW846-6010B
Sodium	UX	94	mg/kg		94	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	U	0.94	mg/kg		0.94	SW846-6020
Vanadium	X	10.2	mg/kg		2.35	SW846-6010B
Zinc	X	50	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00222	pCi/g	0.0044	0.0395	RL-7128
Alpha activity		6.17	pCi/g	1.93	1.63	RL-7111
Americium-241	U	-0.0024	pCi/g	0.0072	0.0221	RL-7128
Beta activity		4.7	pCi/g	0.816	1.53	RL-7111
Cesium-137	U	-0.0159	pCi/g	0.0319	0.0543	RL-7124
Cobalt-60	U	-0.0053	pCi/g	0.0105	0.0448	RL-7124
Neptunium-237	U	-0.012	pCi/g	0.0082	0.0437	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0.0004	0.0173	RL-7128
Plutonium-239/240	U	-0.007	pCi/g	0.0060	0.0174	RL-7128
Technetium-99	U	-0.236	pCi/g	1.2	1.85	RL-7100
Thorium-228		0.257	pCi/g	0.056	0.0793	RL-7128
Thorium-230	U	0.128	pCi/g	0.0476	0.238	RL-7128
Thorium-232		0.333	pCi/g	0.0597	0.167	RL-7128
Thorium-234	U	1.19	pCi/g	2.38	1.02	RL-7124

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Uranium	U	0.226	pCi/g	0.457	0.303	RL-7128
Uranium-234	U	0.127	pCi/g	0.0376	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0975	pCi/g	0.0321	0.125	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	U	5.01	ug/kg		5.01	SW846-8260
Acrolein	U	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings BGOU07-SWMU3ASB2

003004WA060

Collected: 4/17/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		41.8	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.01	mg/L		0.01	SW846-6020
Barium	N	0.167	mg/L		0.005	SW846-6020
Beryllium	X	0.00104	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		31.8	mg/L		1	SW846-6010B
Chromium	NU	0.1	mg/L		0.1	SW846-6020
Cobalt	NUX	0.01	mg/L		0.01	SW846-6020
Copper	NUX	0.2	mg/L		0.2	SW846-6020
Iron		24	mg/L		0.05	SW846-6010B
Lead		0.0172	mg/L		0.0013	SW846-6020
Magnesium	N	14.7	mg/L		0.025	SW846-6010B
Manganese	X	0.284	mg/L		0.05	SW846-6020
Mercury	X	1.4E-05	mg/L		1E-05	SW846-7470A
Molybdenum		0.00169	mg/L		0.001	SW846-6020
Nickel	NU	0.05	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		71.1	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00193	mg/L		0.001	SW846-6020
Vanadium	NU	0.2	mg/L		0.2	SW846-6020
Zinc	JNUX	0.2	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00159	mg/L		0.001	SW846-6020
Barium, Dissolved		0.102	mg/L		0.005	SW846-6020
Beryllium, Dissolved	UX	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		29.9	mg/L		1	SW846-6010B
Chromium, Dissolved	NUX	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.00293	mg/L		0.001	SW846-6020
Copper, Dissolved	NUX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		2.6	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.8	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.172	mg/L		0.005	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Nickel, Dissolved	NUX	0.005	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		71.5	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NUX	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	JNUX	0.02	mg/L		0.02	SW846-6020

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

PPCB					
PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082
RADS					
Activity of U-235		0.0613	pCi/L	0.0342	0.0494 RL-7128
Alpha activity		16.9	pCi/L	2.37	2.97 SW846-9310
Americium-241	U	0.0183	pCi/L	0.0197	0.0615 RL-7128
Beta activity		14.6	pCi/L	0.969	2.89 SW846-9310
Cesium-137	UX	-0.0803	pCi/L	0.161	1.61 RL-7124
Neptunium-237	U	-0.0057	pCi/L	0.0046	0.0697 RL-7128
Plutonium-238	U	0.0388	pCi/L	0.0243	0.044 RL-7128
Plutonium-239/240	U	0.0132	pCi/L	0.0151	0.0486 RL-7128
Technetium-99	B	3.97	pCi/L	0.621	0.795 RL-7100
Thorium-228		0.351	pCi/L	0.0788	0.122 RL-7128
Thorium-230		0.244	pCi/L	0.0735	0.166 RL-7128
Thorium-232		0.314	pCi/L	0.0756	0.0798 RL-7128
Thorium-234	U	-10.3	pCi/L	20.6	28.5 RL-7124
Uranium		1.46	pCi/L	0.848	0.579 RL-7128
Uranium-234		0.604	pCi/L	0.0949	0.446 RL-7128
Uranium-238		0.793	pCi/L	0.105	0.0837 RL-7128
RADS-D					
Activity of U-235	U	0.00767	pCi/L	0.0171	0.049 RL-7128
Uranium-234	U	0.111	pCi/L	0.049	0.447 RL-7128
Uranium-238	U	0.0582	pCi/L	0.0304	0.0847 RL-7128
VOA					
1,1,1,2-Tetrachloroethane	U	5	ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/L	5	SW846-8260
1,1-Dichloroethane	U	5	ug/L	5	SW846-8260
1,1-Dichloroethene	U	5	ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/L	5	SW846-8260
1,2-Dibromoethane	U	5	ug/L	5	SW846-8260
1,2-Dichloroethane	U	5	ug/L	5	SW846-8260
1,2-Dichloropropane	U	5	ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/L	5	SW846-8260
2-Butanone	U	10	ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	U	10	ug/L	10	SW846-8260
2-Hexanone	U	10	ug/L	10	SW846-8260
4-Methyl-2-pentanone	JU	10	ug/L	10	SW846-8260
Acetone	U	10	ug/L	10	SW846-8260
Acrolein	U	10	ug/L	10	SW846-8260
Acrylonitrile	U	10	ug/L	10	SW846-8260
Benzene	U	5	ug/L	5	SW846-8260
Bromodichloromethane	U	5	ug/L	5	SW846-8260
Bromoform	U	5	ug/L	5	SW846-8260
Bromomethane	U	5	ug/L	5	SW846-8260
Carbon disulfide	U	5	ug/L	5	SW846-8260

003-004

BGOU07-SWMU3A

Burial Ground OU SWMU 3 Angle Borings

BGOU07-SWMU3ASB2

Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene		14 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		46 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003005SA001

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5460	mg/kg		18.1	SW846-6010B
Antimony		11.9	mg/kg		9.13	SW846-6010B
Arsenic		7.43	mg/kg		0.906	SW846-6020
Barium		55	mg/kg		2.26	SW846-6010B
Beryllium	BU	0.453	mg/kg		0.453	SW846-6010B
Cadmium	U	1.81	mg/kg		1.81	SW846-6010B
Calcium	*N	12300	mg/kg		90.6	SW846-6010B
Chromium	X	12.4	mg/kg		2.26	SW846-6010B
Cobalt		4.71	mg/kg		2.26	SW846-6010B
Copper		6.18	mg/kg		2.26	SW846-6020
Iron		15200	mg/kg		18.1	SW846-6010B
Lead		9.1	mg/kg		0.906	SW846-6020
Magnesium	N	797	mg/kg		4.53	SW846-6010B
Manganese	N	339	mg/kg		2.26	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum		2.58	mg/kg		2.26	SW846-6010B
Nickel	X	8.03	mg/kg		4.53	SW846-6010B
Selenium	U	0.906	mg/kg		0.906	SW846-6020
Silver	BUX	2.26	mg/kg		2.26	SW846-6010B
Sodium	U	90.6	mg/kg		90.6	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	B	43	mg/kg		4.53	SW846-6020
Vanadium		25.4	mg/kg		2.26	SW846-6010B
Zinc	X	19.7	mg/kg		18.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235		0.079	pCi/g	0.0375	0.0432	RL-7128
Alpha activity		17.7	pCi/g	4.2	3.25	RL-7111
Americium-241	U	0.00508	pCi/g	0.0079	0.0307	RL-7128
Beta activity		28.2	pCi/g	3.22	3.64	RL-7111
Cesium-137		0.344	pCi/g	0.0735	0.0485	RL-7124
Cobalt-60	U	0.00284	pCi/g	0.0057	0.039	RL-7124
Neptunium-237	U	0.00787	pCi/g	0.01	0.0704	RL-7128
Plutonium-238	U	0.00349	pCi/g	0.0058	0.0201	RL-7128
Plutonium-239/240		0.0562	pCi/g	0.0201	0.0213	RL-7128
Technetium-99		8.29	pCi/g	1.33	1.81	RL-7100
Thorium-228		0.311	pCi/g	0.0573	0.114	RL-7128
Thorium-230		0.327	pCi/g	0.0644	0.124	RL-7128
Thorium-232		0.338	pCi/g	0.0593	0.0664	RL-7128
Thorium-234		11.4	pCi/g	0.909	0.904	RL-7124

*QUALIFIER Codes See attached List.

003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		7.02	pCi/g	2.95	0.299	RL-7128
Uranium-234		0.958	pCi/g	0.105	0.131	RL-7128
Uranium-235		0.205	wt %	0.0886		RL-7128
Uranium-238		5.99	pCi/g	0.25	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	J	8.11	ug/kg		5.01	SW846-8260
Acrolein	JU	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg		5.01	SW846-8260

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003-005

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003005SA005

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8370	mg/kg		19.5	SW846-6010B
Antimony	*NU	9.64	mg/kg		9.64	SW846-6010B
Arsenic		3.76	mg/kg		0.975	SW846-6020
Barium		79.1	mg/kg		2.44	SW846-6010B
Beryllium	U	0.488	mg/kg		0.488	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium	N	5080	mg/kg		97.5	SW846-6010B
Chromium		10	mg/kg		2.44	SW846-6010B
Cobalt	X	3.57	mg/kg		2.44	SW846-6010B
Copper		6.19	mg/kg		2.44	SW846-6020
Iron		9730	mg/kg		19.5	SW846-6010B
Lead		8.9	mg/kg		0.975	SW846-6020
Magnesium		720	mg/kg		4.88	SW846-6010B
Manganese	*	400	mg/kg		2.44	SW846-6010B
Mercury		0.02	mg/kg		0.019	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		7.47	mg/kg		4.88	SW846-6010B
Selenium	U	0.975	mg/kg		0.975	SW846-6020
Silver	UX	2.44	mg/kg		2.44	SW846-6010B
Sodium	U	97.5	mg/kg		97.5	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium		19.9	mg/kg		4.88	SW846-6020
Vanadium	X	32.1	mg/kg		2.44	SW846-6010B
Zinc	UX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235		0.102	pCi/g	0.0337	0.0393	RL-7128
Alpha activity		17.3	pCi/g	4.15	3.22	RL-7111
Americium-241	U	0.00587	pCi/g	0.007	0.0303	RL-7128
Beta activity		27.2	pCi/g	3.14	3.61	RL-7111
Cesium-137		0.456	pCi/g	0.0801	0.0674	RL-7124
Cobalt-60	U	0.00086	pCi/g	0.0017	0.0681	RL-7124
Neptunium-237	U	0.00811	pCi/g	0.0112	0.0683	RL-7128
Plutonium-238	U	0.00148	pCi/g	0.0043	0.0183	RL-7128
Plutonium-239/240		0.0399	pCi/g	0.0167	0.0198	RL-7128
Technetium-99		7.35	pCi/g	1.31	1.81	RL-7100
Thorium-228		0.252	pCi/g	0.051	0.113	RL-7128
Thorium-230		0.243	pCi/g	0.0571	0.124	RL-7128
Thorium-232		0.274	pCi/g	0.0518	0.0657	RL-7128
Thorium-234		11.6	pCi/g	0.912	0.891	RL-7124

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		7.46	pCi/g	2.28	0.29	RL-7128
Uranium-234		1.08	pCi/g	0.0969	0.129	RL-7128
Uranium-235		0.252	wt %	0.0803		RL-7128
Uranium-238		6.29	pCi/g	0.225	0.122	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.97	ug/kg		9.97	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003005SA010

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7710	mg/kg		18.3	SW846-6010B
Antimony	*NU	8.58	mg/kg		8.58	SW846-6010B
Arsenic		2.74	mg/kg		0.913	SW846-6020
Barium		86.1	mg/kg		2.28	SW846-6010B
Beryllium	U	0.457	mg/kg		0.457	SW846-6010B
Cadmium	U	1.83	mg/kg		1.83	SW846-6010B
Calcium	N	952	mg/kg		91.3	SW846-6010B
Chromium		10.7	mg/kg		2.28	SW846-6010B
Cobalt	X	3.67	mg/kg		2.28	SW846-6010B
Copper		6.78	mg/kg		2.28	SW846-6020
Iron		9070	mg/kg		18.3	SW846-6010B
Lead		7.13	mg/kg		0.913	SW846-6020
Magnesium		1110	mg/kg		4.57	SW846-6010B
Manganese	*	241	mg/kg		2.28	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel		10.2	mg/kg		4.57	SW846-6010B
Selenium	U	0.913	mg/kg		0.913	SW846-6020
Silver	UX	2.28	mg/kg		2.28	SW846-6010B
Sodium		154	mg/kg		91.3	SW846-6010B
Thallium	U	1.83	mg/kg		1.83	SW846-6020
Uranium	U	0.913	mg/kg		0.913	SW846-6020
Vanadium	X	30.3	mg/kg		2.28	SW846-6010B
Zinc	X	21.1	mg/kg		18.3	SW846-6010B
PPCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0040	pCi/g	0.0077	0.0364	RL-7128
Alpha activity		6.63	pCi/g	2.55	3.34	RL-7111
Americium-241	U	2.6E-05	pCi/g	0.0039	0.031	RL-7128
Beta activity	U	3.32	pCi/g	0.703	3.71	RL-7111
Cesium-137	U	-0.0054	pCi/g	0.0107	0.0477	RL-7124
Cobalt-60	U	-0.0157	pCi/g	0.0314	0.0492	RL-7124
Neptunium-237	U	0.00101	pCi/g	0.0020	0.068	RL-7128
Plutonium-238	U	0.00324	pCi/g	0.0064	0.0185	RL-7128
Plutonium-239/240	U	-0.0088	pCi/g	0.0046	0.0197	RL-7128
Technetium-99	U	1.46	pCi/g	1.19	1.81	RL-7100
Thorium-228		0.338	pCi/g	0.0722	0.117	RL-7128
Thorium-230		0.249	pCi/g	0.0735	0.129	RL-7128
Thorium-232		0.407	pCi/g	0.0784	0.0715	RL-7128
Thorium-234	U	1.09	pCi/g	2.17	0.909	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.103	pCi/g	0.0885	0.282	RL-7128
Uranium-234	U	0.0375	pCi/g	0.0263	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.069	pCi/g	0.0266	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	JU	4.98	ug/kg		4.98	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003005SA015

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7140	mg/kg		19.1	SW846-6010B
Antimony	*NU	9.47	mg/kg		9.47	SW846-6010B
Arsenic	U	0.956	mg/kg		0.956	SW846-6020
Barium		86.4	mg/kg		2.39	SW846-6010B
Beryllium	U	0.478	mg/kg		0.478	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	N	1500	mg/kg		95.6	SW846-6010B
Chromium		10.5	mg/kg		2.39	SW846-6010B
Cobalt	UX	2.39	mg/kg		2.39	SW846-6010B
Copper		4.93	mg/kg		2.39	SW846-6020
Iron		7180	mg/kg		19.1	SW846-6010B
Lead		3.87	mg/kg		0.956	SW846-6020
Magnesium		1350	mg/kg		4.78	SW846-6010B
Manganese	*	63.5	mg/kg		2.39	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel		7.53	mg/kg		4.78	SW846-6010B
Selenium	U	0.956	mg/kg		0.956	SW846-6020
Silver	UX	2.39	mg/kg		2.39	SW846-6010B
Sodium		241	mg/kg		95.6	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	U	0.956	mg/kg		0.956	SW846-6020
Vanadium	X	19.3	mg/kg		2.39	SW846-6010B
Zinc	X	21.7	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0097	pCi/g	0.0053	0.037	RL-7128
Alpha activity		6.77	pCi/g	2.56	3.21	RL-7111
Americium-241	U	0.00144	pCi/g	0.0048	0.0306	RL-7128
Beta activity	U	1.85	pCi/g	0.421	3.59	RL-7111
Cesium-137	U	-0.0056	pCi/g	0.0111	0.0469	RL-7124
Cobalt-60	U	0.00966	pCi/g	0.0193	0.053	RL-7124
Neptunium-237	U	-0.0005	pCi/g	0.0011	0.0687	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0	0.0186	RL-7128
Plutonium-239/240	U	-0.0042	pCi/g	0	0.0196	RL-7128
Technetium-99	U	0.056	pCi/g	1.19	1.81	RL-7100
Thorium-228	T	0.302	pCi/g	0.0799	0.121	RL-7128
Thorium-230	UT	0.109	pCi/g	0.0654	0.135	RL-7128
Thorium-232	T	0.266	pCi/g	0.078	0.0767	RL-7128
Thorium-234	U	1.75	pCi/g	3.5	0.912	RL-7124

*QUALIFIER Codes See attached List.

003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	-0.0194	pCi/g	0.0286	0.285	RL-7128
Uranium-234	U	-0.0129	pCi/g	0.023	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00316	pCi/g	0.0218	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,1-Trichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1,2-Trichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1-Dichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,1-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
1,2,3-Trichloropropane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dibromoethane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dichloroethane	U	4.95	ug/kg		4.95	SW846-8260
1,2-Dichloropropane	JU	4.95	ug/kg		4.95	SW846-8260
1,2-Dimethylbenzene	U	4.95	ug/kg		4.95	SW846-8260
2-Butanone	U	4.95	ug/kg		4.95	SW846-8260
2-Chloroethyl vinyl ether	U	4.95	ug/kg		4.95	SW846-8260
2-Hexanone	U	4.95	ug/kg		4.95	SW846-8260
4-Methyl-2-pentanone	U	4.95	ug/kg		4.95	SW846-8260
Acetone	JU	4.95	ug/kg		4.95	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.95	ug/kg		4.95	SW846-8260
Benzene	U	4.95	ug/kg		4.95	SW846-8260
Bromodichloromethane	U	4.95	ug/kg		4.95	SW846-8260
Bromoform	U	4.95	ug/kg		4.95	SW846-8260
Bromomethane	U	4.95	ug/kg		4.95	SW846-8260
Carbon disulfide	U	4.95	ug/kg		4.95	SW846-8260
Carbon tetrachloride	U	4.95	ug/kg		4.95	SW846-8260
Chlorobenzene	U	4.95	ug/kg		4.95	SW846-8260
Chloroethane	U	4.95	ug/kg		4.95	SW846-8260
Chloroform	U	4.95	ug/kg		4.95	SW846-8260
Chloromethane	JU	4.95	ug/kg		4.95	SW846-8260
cis-1,2-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
cis-1,3-Dichloropropene	U	4.95	ug/kg		4.95	SW846-8260
Dibromochloromethane	U	4.95	ug/kg		4.95	SW846-8260
Dibromomethane	U	4.95	ug/kg		4.95	SW846-8260
Dichlorodifluoromethane	JU	4.95	ug/kg		4.95	SW846-8260
Ethyl methacrylate	U	4.95	ug/kg		4.95	SW846-8260
Ethylbenzene	U	4.95	ug/kg		4.95	SW846-8260
Iodomethane	U	4.95	ug/kg		4.95	SW846-8260
m,p-Xylene	U	9.9	ug/kg		9.9	SW846-8260
Methylene chloride	U	4.95	ug/kg		4.95	SW846-8260
Styrene	U	4.95	ug/kg		4.95	SW846-8260
Tetrachloroethene	U	4.95	ug/kg		4.95	SW846-8260
Toluene	U	4.95	ug/kg		4.95	SW846-8260
trans-1,2-Dichloroethene	U	4.95	ug/kg		4.95	SW846-8260
trans-1,3-Dichloropropene	U	4.95	ug/kg		4.95	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.95	ug/kg		4.95	SW846-8260
Trichloroethene	U	4.95	ug/kg		4.95	SW846-8260
Trichlorofluoromethane	U	4.95	ug/kg		4.95	SW846-8260
Vinyl acetate	U	4.95	ug/kg		4.95	SW846-8260
Vinyl chloride	U	4.95	ug/kg		4.95	SW846-8260

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003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003005SD010

Collected: 2/7/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7470	mg/kg		18.3	SW846-6010B
Antimony	*NU	9.89	mg/kg		9.89	SW846-6010B
Arsenic		4.67	mg/kg		0.915	SW846-6020
Barium		87.1	mg/kg		2.29	SW846-6010B
Beryllium	U	0.458	mg/kg		0.458	SW846-6010B
Cadmium	U	1.83	mg/kg		1.83	SW846-6010B
Calcium	N	903	mg/kg		91.5	SW846-6010B
Chromium		10.7	mg/kg		2.29	SW846-6010B
Cobalt	X	4.09	mg/kg		2.29	SW846-6010B
Copper		7.25	mg/kg		2.29	SW846-6020
Iron		13500	mg/kg		18.3	SW846-6010B
Lead		6.1	mg/kg		0.915	SW846-6020
Magnesium		1080	mg/kg		4.58	SW846-6010B
Manganese	*	242	mg/kg		2.29	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.29	mg/kg		2.29	SW846-6010B
Nickel		13	mg/kg		4.58	SW846-6010B
Selenium	U	0.915	mg/kg		0.915	SW846-6020
Silver	UX	2.29	mg/kg		2.29	SW846-6010B
Sodium		154	mg/kg		91.5	SW846-6010B
Thallium	U	1.83	mg/kg		1.83	SW846-6020
Uranium	U	0.915	mg/kg		0.915	SW846-6020
Vanadium	X	30.5	mg/kg		2.29	SW846-6010B
Zinc	X	23.2	mg/kg		18.3	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.011	pCi/g	0.0048	0.0362	RL-7128
Alpha activity		5.66	pCi/g	2.31	3.31	RL-7111
Americium-241	U	0.00315	pCi/g	0.0068	0.0301	RL-7128
Beta activity	U	3.42	pCi/g	0.72	3.69	RL-7111
Cesium-137	U	0.00165	pCi/g	0.0033	0.0518	RL-7124
Cobalt-60	U	0.0111	pCi/g	0.0222	0.0473	RL-7124
Neptunium-237	U	0.00022	pCi/g	0.0004	0.0685	RL-7128
Plutonium-238	U	0.0019	pCi/g	0.0049	0.0189	RL-7128
Plutonium-239/240	U	-0.0056	pCi/g	0.0027	0.0196	RL-7128
Technetium-99	U	1.4	pCi/g	1.19	1.81	RL-7100
Thorium-228		0.443	pCi/g	0.0752	0.118	RL-7128
Thorium-230		0.505	pCi/g	0.0865	0.127	RL-7128
Thorium-232		0.512	pCi/g	0.0791	0.0679	RL-7128
Thorium-234	U	1.74	pCi/g	3.48	0.951	RL-7124

*QUALIFIER Codes See attached List.

003-005

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.238	pCi/g	0.478	0.283	RL-7128
Uranium-234	U	0.107	pCi/g	0.033	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.142	pCi/g	0.0336	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	JU	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	JU	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.92	ug/kg		9.92	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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003-006

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003006SA001

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8570	mg/kg		17.8	SW846-6010B
Antimony	*NU	8.61	mg/kg		8.61	SW846-6010B
Arsenic		4.96	mg/kg		0.889	SW846-6020
Barium		57	mg/kg		2.22	SW846-6010B
Beryllium	U	0.444	mg/kg		0.444	SW846-6010B
Cadmium	U	1.78	mg/kg		1.78	SW846-6010B
Calcium	N	35200	mg/kg		88.9	SW846-6010B
Chromium		12.5	mg/kg		2.22	SW846-6010B
Cobalt	X	6.41	mg/kg		2.22	SW846-6010B
Copper		6.41	mg/kg		2.22	SW846-6020
Iron		13100	mg/kg		17.8	SW846-6010B
Lead		11.5	mg/kg		0.889	SW846-6020
Magnesium		1340	mg/kg		4.44	SW846-6010B
Manganese	*	367	mg/kg		2.22	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum		3.58	mg/kg		2.22	SW846-6010B
Nickel		7.54	mg/kg		4.44	SW846-6010B
Selenium	U	0.889	mg/kg		0.889	SW846-6020
Silver	UX	2.22	mg/kg		2.22	SW846-6010B
Sodium	U	88.9	mg/kg		88.9	SW846-6010B
Thallium	U	1.78	mg/kg		1.78	SW846-6020
Uranium		17.1	mg/kg		0.889	SW846-6020
Vanadium	X	33.7	mg/kg		2.22	SW846-6010B
Zinc	X	22	mg/kg		17.8	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0185	pCi/g	0.016	0.0377	RL-7128
Alpha activity		6.95	pCi/g	2.58	4.12	RL-7111
Americium-241	U	-0.0054	pCi/g	0.0061	0.0309	RL-7128
Beta activity		26	pCi/g	3.17	3.95	RL-7111
Cesium-137	U	0.0366	pCi/g	0.0329	0.0494	RL-7124
Cobalt-60	U	0.0062	pCi/g	0.0124	0.045	RL-7124
Neptunium-237	U	0.00114	pCi/g	0.0023	0.0696	RL-7128
Plutonium-238	U	0.00086	pCi/g	0.0048	0.0214	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0.0018	0.0221	RL-7128
Technetium-99		21.6	pCi/g	1.55	1.81	RL-7100
Thorium-228		0.177	pCi/g	0.048	0.115	RL-7128
Thorium-230		0.194	pCi/g	0.0574	0.125	RL-7128
Thorium-232		0.221	pCi/g	0.0515	0.0671	RL-7128
Thorium-234		1.79	pCi/g	0.662	0.742	RL-7124

003-006

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	1.98	pCi/g	1.03	0.286	RL-7128
Uranium-234	0.323	pCi/g	0.0527	0.128	RL-7128
Uranium-235		wt %			RL-7128
Uranium-238	1.64	pCi/g	0.105	0.121	RL-7128

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003-006

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003006SA005

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6540	mg/kg		19.1	SW846-6010B
Antimony	U	8.08	mg/kg		8.08	SW846-6010B
Arsenic		3.9	mg/kg		0.957	SW846-6020
Barium		33.6	mg/kg		2.39	SW846-6010B
Beryllium	BU	0.479	mg/kg		0.479	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	*N	35600	mg/kg		95.7	SW846-6010B
Chromium	X	17.9	mg/kg		2.39	SW846-6010B
Cobalt		9.2	mg/kg		2.39	SW846-6010B
Copper		4.33	mg/kg		2.39	SW846-6020
Iron		14900	mg/kg		19.1	SW846-6010B
Lead		9.37	mg/kg		0.957	SW846-6020
Magnesium	N	1510	mg/kg		4.79	SW846-6010B
Manganese	N	182	mg/kg		2.39	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum		3.78	mg/kg		2.39	SW846-6010B
Nickel	X	7.16	mg/kg		4.79	SW846-6010B
Selenium	U	0.957	mg/kg		0.957	SW846-6020
Silver	BUX	2.39	mg/kg		2.39	SW846-6010B
Sodium	U	95.7	mg/kg		95.7	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	B	5.3	mg/kg		0.957	SW846-6020
Vanadium		25.7	mg/kg		2.39	SW846-6010B
Zinc	X	20.9	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235		0.0397	pCi/g	0.0213	0.0374	RL-7128
Alpha activity	X	14.1	pCi/g	4.06	5.57	RL-7111
Americium-241	U	0.00295	pCi/g	0.0065	0.0299	RL-7128
Beta activity		72.1	pCi/g	5.86	4.18	RL-7111
Cesium-137	U	0.0234	pCi/g	0.0278	0.0519	RL-7124
Cobalt-60	U	-3E-06	pCi/g	6E-06	0.0367	RL-7124
Neptunium-237	U	0.00751	pCi/g	0.0095	0.0678	RL-7128
Plutonium-238	U	-0.0028	pCi/g	0.0025	0.0198	RL-7128
Plutonium-239/240	U	0.00166	pCi/g	0.0089	0.0208	RL-7128
Technetium-99		56.9	pCi/g	2.05	1.81	RL-7100
Thorium-228		0.241	pCi/g	0.0456	0.113	RL-7128
Thorium-230		0.177	pCi/g	0.0468	0.122	RL-7128
Thorium-232		0.223	pCi/g	0.0441	0.0642	RL-7128
Thorium-234		3.03	pCi/g	0.57	0.652	RL-7124

003-006

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		3.48	pCi/g	1.45	0.286	RL-7128
Uranium-234		0.533	pCi/g	0.0634	0.128	RL-7128
Uranium-235		0.212	wt %	0.0897		RL-7128
Uranium-238		2.91	pCi/g	0.137	0.121	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,1-Trichloroethane	JU	5.03	ug/kg		5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg		5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
2-Butanone	JU	5.03	ug/kg		5.03	SW846-8260
2-Chloroethyl vinyl ether	U	5.03	ug/kg		5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg		5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg		5.03	SW846-8260
Acetone	JU	5.03	ug/kg		5.03	SW846-8260
Acrolein	JU	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	5.03	ug/kg		5.03	SW846-8260
Benzene	U	5.03	ug/kg		5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg		5.03	SW846-8260
Bromoform	U	5.03	ug/kg		5.03	SW846-8260
Bromomethane	JU	5.03	ug/kg		5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg		5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg		5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg		5.03	SW846-8260
Chloroethane	U	5.03	ug/kg		5.03	SW846-8260
Chloroform	U	5.03	ug/kg		5.03	SW846-8260
Chloromethane	U	5.03	ug/kg		5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg		5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg		5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg		5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg		5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg		5.03	SW846-8260
Iodomethane	U	5.03	ug/kg		5.03	SW846-8260
m,p-Xylene	JU	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg		5.03	SW846-8260
Styrene	JU	5.03	ug/kg		5.03	SW846-8260
Tetrachloroethene	JU	5.03	ug/kg		5.03	SW846-8260
Toluene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg		5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg		5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.03	ug/kg		5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg		5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg		5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg		5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg		5.03	SW846-8260

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003-006

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003006SA010

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7910	mg/kg		19.8	SW846-6010B
Antimony	U	9.58	mg/kg		9.58	SW846-6010B
Arsenic		2.96	mg/kg		0.988	SW846-6020
Barium		53.8	mg/kg		2.47	SW846-6010B
Beryllium	BU	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium	*N	1410	mg/kg		98.8	SW846-6010B
Chromium	X	9.11	mg/kg		2.47	SW846-6010B
Cobalt		4.51	mg/kg		2.47	SW846-6010B
Copper		11.3	mg/kg		2.47	SW846-6020
Iron		10800	mg/kg		19.8	SW846-6010B
Lead		5.89	mg/kg		0.988	SW846-6020
Magnesium	N	1140	mg/kg		4.94	SW846-6010B
Manganese	N	203	mg/kg		2.47	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	X	8.34	mg/kg		4.94	SW846-6010B
Selenium	U	0.988	mg/kg		0.988	SW846-6020
Silver	BUX	2.47	mg/kg		2.47	SW846-6010B
Sodium		199	mg/kg		98.8	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	BU	0.988	mg/kg		0.988	SW846-6020
Vanadium		16.8	mg/kg		2.47	SW846-6010B
Zinc	X	28.4	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.013	pCi/g	0.0008	0.0364	RL-7128
Alpha activity		6.3	pCi/g	2.47	3.36	RL-7111
Americium-241	U	8.5E-05	pCi/g	0.0040	0.0307	RL-7128
Beta activity		4.27	pCi/g	0.867	3.72	RL-7111
Cesium-137	U	-0.0147	pCi/g	0.0294	0.0507	RL-7124
Cobalt-60	U	-0.02	pCi/g	0.04	0.0404	RL-7124
Neptunium-237	U	0.0155	pCi/g	0.0103	0.0684	RL-7128
Plutonium-238	U	-0.0009	pCi/g	0.0014	0.0191	RL-7128
Plutonium-239/240	U	-0.0035	pCi/g	0.0014	0.0223	RL-7128
Technetium-99	U	1.66	pCi/g	1.19	1.81	RL-7100
Thorium-228		0.284	pCi/g	0.052	0.113	RL-7128
Thorium-230		0.238	pCi/g	0.0534	0.123	RL-7128
Thorium-232		0.288	pCi/g	0.051	0.0647	RL-7128
Thorium-234	U	0.801	pCi/g	1.6	0.851	RL-7124

*QUALIFIER Codes See attached List.

003-006

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0363	pCi/g	0.0736	0.283	RL-7128
Uranium-234	U	0.0197	pCi/g	0.0261	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0296	pCi/g	0.0237	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	U	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	U	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	U	5	ug/kg		5	SW846-8260
Tetrachloroethene	U	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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003-006

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003006SA015

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6200	mg/kg		18.2	SW846-6010B
Antimony	U	9.15	mg/kg		9.15	SW846-6010B
Arsenic		1.68	mg/kg		0.908	SW846-6020
Barium		60.3	mg/kg		2.27	SW846-6010B
Beryllium	BU	0.454	mg/kg		0.454	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium	*N	850	mg/kg		90.8	SW846-6010B
Chromium	X	10.2	mg/kg		2.27	SW846-6010B
Cobalt		2.29	mg/kg		2.27	SW846-6010B
Copper		4.88	mg/kg		2.27	SW846-6020
Iron		8300	mg/kg		18.2	SW846-6010B
Lead		5.17	mg/kg		0.908	SW846-6020
Magnesium	N	807	mg/kg		4.54	SW846-6010B
Manganese	N	87.3	mg/kg		2.27	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel	X	6.82	mg/kg		4.54	SW846-6010B
Selenium	U	0.908	mg/kg		0.908	SW846-6020
Silver	BUX	2.27	mg/kg		2.27	SW846-6010B
Sodium		179	mg/kg		90.8	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	BU	0.908	mg/kg		0.908	SW846-6020
Vanadium		18.2	mg/kg		2.27	SW846-6010B
Zinc	UX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0111	pCi/g	0.0046	0.0374	RL-7128
Alpha activity		7.01	pCi/g	2.61	3.23	RL-7111
Americium-241	U	-0.0012	pCi/g	0.0015	0.0305	RL-7128
Beta activity	U	3.24	pCi/g	0.686	3.62	RL-7111
Cesium-137	U	-0.0101	pCi/g	0.0203	0.0417	RL-7124
Cobalt-60	U	0.00661	pCi/g	0.0132	0.049	RL-7124
Neptunium-237	U	0.00291	pCi/g	0.0058	0.0678	RL-7128
Plutonium-238	U	0.00151	pCi/g	0.0043	0.0182	RL-7128
Plutonium-239/240	U	-0.0012	pCi/g	0.0043	0.0197	RL-7128
Technetium-99	U	1.2	pCi/g	1.18	1.81	RL-7100
Thorium-228		0.323	pCi/g	0.0558	0.113	RL-7128
Thorium-230		0.224	pCi/g	0.055	0.124	RL-7128
Thorium-232		0.289	pCi/g	0.0526	0.0657	RL-7128
Thorium-234		1.82	pCi/g	0.674	0.638	RL-7124

*QUALIFIER Codes See attached List.

003-006

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0624	pCi/g	0.127	0.286	RL-7128
Uranium-234	U	0.0248	pCi/g	0.0286	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0487	pCi/g	0.0278	0.121	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	JU	5.04	ug/kg		5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	JU	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	JU	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	JU	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	JU	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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003-007

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003007SA001

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8230	mg/kg		18.2	SW846-6010B
Antimony		10.7	mg/kg		9.72	SW846-6010B
Arsenic		7.62	mg/kg		0.912	SW846-6020
Barium		74.8	mg/kg		2.28	SW846-6010B
Beryllium	BU	0.456	mg/kg		0.456	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium	*N	3140	mg/kg		91.2	SW846-6010B
Chromium	X	10.7	mg/kg		2.28	SW846-6010B
Cobalt		5.71	mg/kg		2.28	SW846-6010B
Copper		10.6	mg/kg		2.28	SW846-6020
Iron		15700	mg/kg		18.2	SW846-6010B
Lead		12.7	mg/kg		0.912	SW846-6020
Magnesium	N	1590	mg/kg		4.56	SW846-6010B
Manganese	N	558	mg/kg		2.28	SW846-6010B
Mercury		0.024	mg/kg		0.02	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel	X	10.7	mg/kg		4.56	SW846-6010B
Selenium	U	0.912	mg/kg		0.912	SW846-6020
Silver	BUX	2.28	mg/kg		2.28	SW846-6010B
Sodium		103	mg/kg		91.2	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	B	9.07	mg/kg		0.912	SW846-6020
Vanadium		26.9	mg/kg		2.28	SW846-6010B
Zinc	X	31.8	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.00838	pCi/g	0.0141	0.0369	RL-7128
Alpha activity		9.37	pCi/g	3.12	3.41	RL-7111
Americium-241	U	-0.0012	pCi/g	0.0015	0.0305	RL-7128
Beta activity		6.55	pCi/g	1.22	3.75	RL-7111
Cesium-137	U	0.0314	pCi/g	0.0628	0.0873	RL-7124
Cobalt-60	U	0.0202	pCi/g	0.0405	0.0608	RL-7124
Neptunium-237	U	-0.0005	pCi/g	0.0011	0.0692	RL-7128
Plutonium-238	U	0.00011	pCi/g	0.0033	0.02	RL-7128
Plutonium-239/240	U	-0.0005	pCi/g	0.0063	0.021	RL-7128
Technetium-99		5.11	pCi/g	1.27	1.81	RL-7100
Thorium-228		0.442	pCi/g	0.0757	0.116	RL-7128
Thorium-230		0.356	pCi/g	0.0754	0.127	RL-7128
Thorium-232		0.519	pCi/g	0.0819	0.0706	RL-7128
Thorium-234	U	2.06	pCi/g	4.12	1.03	RL-7124

*QUALIFIER Codes See attached List.

003-007

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		0.975	pCi/g	0.65	0.283	RL-7128
Uranium-234		0.204	pCi/g	0.0415	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.762	pCi/g	0.068	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	U	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	U	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	U	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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12/18/2007

003-007

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003007SA005

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7190	mg/kg		18.6	SW846-6010B
Antimony		9.89	mg/kg		9.72	SW846-6010B
Arsenic		7.03	mg/kg		0.931	SW846-6020
Barium		41.9	mg/kg		2.33	SW846-6010B
Beryllium	BU	0.465	mg/kg		0.465	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium	*N	557	mg/kg		93.1	SW846-6010B
Chromium	X	11.5	mg/kg		2.33	SW846-6010B
Cobalt		4.58	mg/kg		2.33	SW846-6010B
Copper		13.6	mg/kg		2.33	SW846-6020
Iron		16000	mg/kg		18.6	SW846-6010B
Lead		11	mg/kg		0.931	SW846-6020
Magnesium	N	1770	mg/kg		4.65	SW846-6010B
Manganese	N	282	mg/kg		2.33	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel	X	11.9	mg/kg		4.65	SW846-6010B
Selenium	U	0.931	mg/kg		0.931	SW846-6020
Silver	BUX	2.33	mg/kg		2.33	SW846-6010B
Sodium		94.7	mg/kg		93.1	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	B	15.8	mg/kg		0.931	SW846-6020
Vanadium		21.4	mg/kg		2.33	SW846-6010B
Zinc	X	40.9	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235		0.0799	pCi/g	0.0344	0.042	RL-7128
Alpha activity		10.8	pCi/g	3.29	3.37	RL-7111
Americium-241	U	-0.0003	pCi/g	0.0033	0.0312	RL-7128
Beta activity		15	pCi/g	2.19	3.73	RL-7111
Cesium-137	U	0.0148	pCi/g	0.0296	0.0801	RL-7124
Cobalt-60	U	-0.0184	pCi/g	0.0368	0.0562	RL-7124
Neptunium-237	U	0.00222	pCi/g	0.0044	0.0686	RL-7128
Plutonium-238	U	-0.0020	pCi/g	0.001	0.0184	RL-7128
Plutonium-239/240	U	-0.0024	pCi/g	0.0037	0.0193	RL-7128
Technetium-99		3.04	pCi/g	1.22	1.81	RL-7100
Thorium-228		0.484	pCi/g	0.0776	0.116	RL-7128
Thorium-230		0.4	pCi/g	0.078	0.126	RL-7128
Thorium-232		0.554	pCi/g	0.0814	0.0674	RL-7128
Thorium-234		9.81	pCi/g	1.3	1.05	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		6.55	pCi/g	2.51	0.297	RL-7128
Uranium-234		0.913	pCi/g	0.0982	0.131	RL-7128
Uranium-235		0.223	wt %	0.0885		RL-7128
Uranium-238		5.55	pCi/g	0.231	0.124	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	U	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	U	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg		9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	U	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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12/18/2007

003-007

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003007SA010

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5100	mg/kg		18.7	SW846-6010B
Antimony	U	7.31	mg/kg		7.31	SW846-6010B
Arsenic		2.57	mg/kg		0.936	SW846-6020
Barium		81.3	mg/kg		2.34	SW846-6010B
Beryllium	BU	0.468	mg/kg		0.468	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium	*N	976	mg/kg		93.6	SW846-6010B
Chromium	X	8.58	mg/kg		2.34	SW846-6010B
Cobalt		3.11	mg/kg		2.34	SW846-6010B
Copper		7.08	mg/kg		2.34	SW846-6020
Iron		9360	mg/kg		18.7	SW846-6010B
Lead		7.34	mg/kg		0.936	SW846-6020
Magnesium	N	1200	mg/kg		4.68	SW846-6010B
Manganese	N	227	mg/kg		2.34	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	X	11.4	mg/kg		4.68	SW846-6010B
Selenium	U	0.936	mg/kg		0.936	SW846-6020
Silver	BUX	2.34	mg/kg		2.34	SW846-6010B
Sodium		109	mg/kg		93.6	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	B	6.09	mg/kg		0.936	SW846-6020
Vanadium		18.7	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0264	pCi/g	0.017	0.037	RL-7128
Alpha activity		19.2	pCi/g	4.46	3.25	RL-7111
Americium-241	U	0.00346	pCi/g	0.0072	0.031	RL-7128
Beta activity		20.5	pCi/g	2.65	3.64	RL-7111
Cesium-137	U	-0.0038	pCi/g	0.0076	0.0516	RL-7124
Cobalt-60	U	0.0279	pCi/g	0.0558	0.0614	RL-7124
Neptunium-237	U	0.00384	pCi/g	0.0072	0.0676	RL-7128
Plutonium-238	U	0.00158	pCi/g	0.0044	0.0181	RL-7128
Plutonium-239/240	U	-0.0027	pCi/g	0.0031	0.0194	RL-7128
Technetium-99	U	1.25	pCi/g	1.18	1.81	RL-7100
Thorium-228		0.275	pCi/g	0.0566	0.115	RL-7128
Thorium-230		0.191	pCi/g	0.0562	0.126	RL-7128
Thorium-232		0.304	pCi/g	0.057	0.0677	RL-7128
Thorium-234		11	pCi/g	1.21	0.877	RL-7124

*QUALIFIER Codes See attached List.

003-007

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		2.7	pCi/g	1.2	0.284	RL-7128
Uranium-234		0.392	pCi/g	0.0521	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		2.28	pCi/g	0.114	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,1-Trichloroethane	JU	4.97	ug/kg		4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg		4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
2-Butanone	JU	4.97	ug/kg		4.97	SW846-8260
2-Chloroethyl vinyl ether	U	4.97	ug/kg		4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg		4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg		4.97	SW846-8260
Acetone	JU	4.97	ug/kg		4.97	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.97	ug/kg		4.97	SW846-8260
Benzene	U	4.97	ug/kg		4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg		4.97	SW846-8260
Bromoform	U	4.97	ug/kg		4.97	SW846-8260
Bromomethane	JU	4.97	ug/kg		4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg		4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg		4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg		4.97	SW846-8260
Chloroethane	U	4.97	ug/kg		4.97	SW846-8260
Chloroform	U	4.97	ug/kg		4.97	SW846-8260
Chloromethane	U	4.97	ug/kg		4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg		4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg		4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg		4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg		4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg		4.97	SW846-8260
Iodomethane	U	4.97	ug/kg		4.97	SW846-8260
m,p-Xylene	JU	9.93	ug/kg		9.93	SW846-8260
Methylene chloride	U	4.97	ug/kg		4.97	SW846-8260
Styrene	JU	4.97	ug/kg		4.97	SW846-8260
Tetrachloroethene	JU	4.97	ug/kg		4.97	SW846-8260
Toluene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg		4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg		4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.97	ug/kg		4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg		4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg		4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg		4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg		4.97	SW846-8260

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003-007

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003007SA015

Collected: 2/7/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5760	mg/kg		19.7	SW846-6010B
Antimony	U	8.92	mg/kg		8.92	SW846-6010B
Arsenic		2.3	mg/kg		0.987	SW846-6020
Barium		44.7	mg/kg		2.47	SW846-6010B
Beryllium	BU	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.97	mg/kg		1.97	SW846-6010B
Calcium	*N	838	mg/kg		98.7	SW846-6010B
Chromium	X	12.8	mg/kg		2.47	SW846-6010B
Cobalt		2.72	mg/kg		2.47	SW846-6010B
Copper		5.18	mg/kg		2.47	SW846-6020
Iron		10300	mg/kg		19.7	SW846-6010B
Lead		7.68	mg/kg		0.987	SW846-6020
Magnesium	N	902	mg/kg		4.94	SW846-6010B
Manganese	N	109	mg/kg		2.47	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	X	6.23	mg/kg		4.94	SW846-6010B
Selenium	U	0.987	mg/kg		0.987	SW846-6020
Silver	BUX	2.47	mg/kg		2.47	SW846-6010B
Sodium		117	mg/kg		98.7	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium	BU	0.987	mg/kg		0.987	SW846-6020
Vanadium		25	mg/kg		2.47	SW846-6010B
Zinc	UX	19.7	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0136	pCi/g	0.0004	0.0372	RL-7128
Alpha activity		4.8	pCi/g	2.09	3.27	RL-7111
Americium-241	U	-0.0019	pCi/g	0	0.0305	RL-7128
Beta activity	U	1.88	pCi/g	0.43	3.66	RL-7111
Cesium-137	U	0.00519	pCi/g	0.0104	0.0502	RL-7124
Cobalt-60	U	-0.0013	pCi/g	0.0027	0.0414	RL-7124
Neptunium-237	U	-0.0048	pCi/g	0.0048	0.0685	RL-7128
Plutonium-238	U	0.0031	pCi/g	0.0054	0.0185	RL-7128
Plutonium-239/240	U	-0.0051	pCi/g	0.0017	0.0202	RL-7128
Technetium-99	U	1.71	pCi/g	1.19	1.81	RL-7100
Thorium-228		0.372	pCi/g	0.0676	0.117	RL-7128
Thorium-230		0.152	pCi/g	0.0562	0.126	RL-7128
Thorium-232		0.331	pCi/g	0.0635	0.0697	RL-7128
Thorium-234	U	1.44	pCi/g	2.88	0.909	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0247	pCi/g	0.0502	0.284	RL-7128
Uranium-234	U	0.0117	pCi/g	0.0257	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0266	pCi/g	0.0247	0.12	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg		4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
2-Butanone	U	4.96	ug/kg		4.96	SW846-8260
2-Chloroethyl vinyl ether	U	4.96	ug/kg		4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg		4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg		4.96	SW846-8260
Acetone	JU	4.96	ug/kg		4.96	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	4.96	ug/kg		4.96	SW846-8260
Benzene	U	4.96	ug/kg		4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg		4.96	SW846-8260
Bromoform	U	4.96	ug/kg		4.96	SW846-8260
Bromomethane	U	4.96	ug/kg		4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg		4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg		4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg		4.96	SW846-8260
Chloroethane	U	4.96	ug/kg		4.96	SW846-8260
Chloroform	U	4.96	ug/kg		4.96	SW846-8260
Chloromethane	U	4.96	ug/kg		4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg		4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg		4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg		4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg		4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg		4.96	SW846-8260
Iodomethane	U	4.96	ug/kg		4.96	SW846-8260
m,p-Xylene	U	9.92	ug/kg		9.92	SW846-8260
Methylene chloride	U	4.96	ug/kg		4.96	SW846-8260
Styrene	U	4.96	ug/kg		4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg		4.96	SW846-8260
Toluene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg		4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg		4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg		4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg		4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg		4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg		4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg		4.96	SW846-8260

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003-008

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003008SA001

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6680	mg/kg		19.1	SW846-6010B
Antimony		15.7	mg/kg		9.77	SW846-6010B
Arsenic		3	mg/kg		0.956	SW846-6020
Barium		72.6	mg/kg		2.39	SW846-6010B
Beryllium	BU	0.478	mg/kg		0.478	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	*N	2140	mg/kg		95.6	SW846-6010B
Chromium	X	9.57	mg/kg		2.39	SW846-6010B
Cobalt		2.55	mg/kg		2.39	SW846-6010B
Copper		5.56	mg/kg		2.39	SW846-6020
Iron		8460	mg/kg		19.1	SW846-6010B
Lead		8.45	mg/kg		0.956	SW846-6020
Magnesium	N	607	mg/kg		4.78	SW846-6010B
Manganese	N	116	mg/kg		2.39	SW846-6010B
Mercury		0.02	mg/kg		0.017	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel	X	4.83	mg/kg		4.78	SW846-6010B
Selenium	U	0.956	mg/kg		0.956	SW846-6020
Silver	BUX	2.39	mg/kg		2.39	SW846-6010B
Sodium	U	95.6	mg/kg		95.6	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	B	1.13	mg/kg		0.956	SW846-6020
Vanadium		22.2	mg/kg		2.39	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0142	pCi/g	0.014	0.0372	RL-7128
Alpha activity		5.4	pCi/g	1.59	1.52	RL-7111
Americium-241	U	-0.004	pCi/g	0.0018	0.0306	RL-7128
Beta activity		4.36	pCi/g	0.716	1.58	RL-7111
Cesium-137	U	0.0646	pCi/g	0.129	0.0846	RL-7124
Cobalt-60	U	-0.0048	pCi/g	0.0096	0.0602	RL-7124
Neptunium-237	U	0.00251	pCi/g	0.0050	0.0704	RL-7128
Plutonium-238	U	-0.0025	pCi/g	0	0.0188	RL-7128
Plutonium-239/240	U	-0.0085	pCi/g	0.0035	0.0199	RL-7128
Technetium-99	U	0.347	pCi/g	1.19	1.85	RL-7100
Thorium-228		0.39	pCi/g	0.0571	0.11	RL-7128
Thorium-230		0.354	pCi/g	0.0595	0.123	RL-7128
Thorium-232		0.391	pCi/g	0.0561	0.064	RL-7128
Thorium-234		1.67	pCi/g	0.657	0.791	RL-7124

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium		0.48	pCi/g	0.258	0.283	RL-7128
Uranium-234		0.167	pCi/g	0.0376	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.298	pCi/g	0.0449	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene		6.33	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	UY	4.99	ug/kg		4.99	SW846-8260

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003-008

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003008SA005

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8700	mg/kg		18.5	SW846-6010B
Antimony		11	mg/kg		9.08	SW846-6010B
Arsenic		1.25	mg/kg		0.923	SW846-6020
Barium		111	mg/kg		2.31	SW846-6010B
Beryllium	BU	0.462	mg/kg		0.462	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium	*N	673	mg/kg		92.3	SW846-6010B
Chromium	X	9.6	mg/kg		2.31	SW846-6010B
Cobalt		3.33	mg/kg		2.31	SW846-6010B
Copper		6.56	mg/kg		2.31	SW846-6020
Iron		6820	mg/kg		18.5	SW846-6010B
Lead		7.67	mg/kg		0.923	SW846-6020
Magnesium	N	704	mg/kg		4.62	SW846-6010B
Manganese	N	201	mg/kg		2.31	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel	X	6.37	mg/kg		4.62	SW846-6010B
Selenium	U	0.923	mg/kg		0.923	SW846-6020
Silver	BUX	2.31	mg/kg		2.31	SW846-6010B
Sodium		130	mg/kg		92.3	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	BU	0.923	mg/kg		0.923	SW846-6020
Vanadium		17.7	mg/kg		2.31	SW846-6010B
Zinc	X	20.4	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0095	pCi/g	0.0081	0.036	RL-7128
Alpha activity		5.48	pCi/g	1.63	1.57	RL-7111
Americium-241	U	0.00239	pCi/g	0.0079	0.0304	RL-7128
Beta activity		3.69	pCi/g	0.637	1.59	RL-7111
Cesium-137	U	-0.0295	pCi/g	0.0589	0.0494	RL-7124
Cobalt-60	U	-0.0377	pCi/g	0.0753	0.0567	RL-7124
Neptunium-237	U	0.0022	pCi/g	0.0044	0.0678	RL-7128
Plutonium-238	U	-0.001	pCi/g	0.0030	0.0187	RL-7128
Plutonium-239/240	U	-0.0045	pCi/g	0.0030	0.0194	RL-7128
Technetium-99	U	-0.234	pCi/g	1.17	1.85	RL-7100
Thorium-228		0.387	pCi/g	0.0579	0.11	RL-7128
Thorium-230		0.347	pCi/g	0.0603	0.124	RL-7128
Thorium-232		0.414	pCi/g	0.0585	0.0644	RL-7128
Thorium-234		1.59	pCi/g	0.666	0.761	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.223	pCi/g	0.437	0.28	RL-7128
Uranium-234	U	0.105	pCi/g	0.0314	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.127	pCi/g	0.0309	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	JU	5.01	ug/kg		5.01	SW846-8260
Acrolein	JU	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	UY	5.01	ug/kg		5.01	SW846-8260

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003-008

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003008SA010

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6670	mg/kg		17.6	SW846-6010B
Antimony	U	9.57	mg/kg		9.57	SW846-6010B
Arsenic		1.4	mg/kg		0.88	SW846-6020
Barium		83.1	mg/kg		2.2	SW846-6010B
Beryllium	BU	0.44	mg/kg		0.44	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium	*N	1110	mg/kg		88	SW846-6010B
Chromium	X	10.2	mg/kg		2.2	SW846-6010B
Cobalt		2.76	mg/kg		2.2	SW846-6010B
Copper		6.5	mg/kg		2.2	SW846-6020
Iron		8630	mg/kg		17.6	SW846-6010B
Lead		5.62	mg/kg		0.88	SW846-6020
Magnesium	N	1120	mg/kg		4.4	SW846-6010B
Manganese	N	154	mg/kg		2.2	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.2	mg/kg		2.2	SW846-6010B
Nickel	X	9.3	mg/kg		4.4	SW846-6010B
Selenium	U	0.88	mg/kg		0.88	SW846-6020
Silver	BUX	2.2	mg/kg		2.2	SW846-6010B
Sodium		214	mg/kg		88	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium	BU	0.88	mg/kg		0.88	SW846-6020
Vanadium		16.4	mg/kg		2.2	SW846-6010B
Zinc	X	20.2	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0146	pCi/g	0.0019	0.0366	RL-7128
Alpha activity		6.11	pCi/g	1.78	1.65	RL-7111
Americium-241	U	-0.0027	pCi/g	0.0007	0.031	RL-7128
Beta activity		3.27	pCi/g	0.585	1.61	RL-7111
Cesium-137	U	-0.0002	pCi/g	0.0004	0.0512	RL-7124
Cobalt-60	U	-0.0088	pCi/g	0.0175	0.0494	RL-7124
Neptunium-237	U	0.00156	pCi/g	0.0031	0.0677	RL-7128
Plutonium-238	U	-0.0008	pCi/g	0.0035	0.0198	RL-7128
Plutonium-239/240	U	-0.0060	pCi/g	0	0.0211	RL-7128
Technetium-99	U	-1.16	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.341	pCi/g	0.0548	0.11	RL-7128
Thorium-230		0.278	pCi/g	0.0546	0.125	RL-7128
Thorium-232		0.376	pCi/g	0.0557	0.0647	RL-7128
Thorium-234	U	0.43	pCi/g	0.86	0.854	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0595	pCi/g	0.121	0.282	RL-7128
Uranium-234	U	0.0288	pCi/g	0.0253	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0453	pCi/g	0.0239	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	5.02	ug/kg		5.02	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	UY	4.99	ug/kg		4.99	SW846-8260

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003-008

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003008SA015

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6760	mg/kg		19.9	SW846-6010B
Antimony	U	8.99	mg/kg		8.99	SW846-6010B
Arsenic		1.18	mg/kg		0.993	SW846-6020
Barium		54.4	mg/kg		2.48	SW846-6010B
Beryllium	BU	0.497	mg/kg		0.497	SW846-6010B
Cadmium	U	1.99	mg/kg		1.99	SW846-6010B
Calcium	*N	927	mg/kg		99.3	SW846-6010B
Chromium	X	10	mg/kg		2.48	SW846-6010B
Cobalt	U	2.48	mg/kg		2.48	SW846-6010B
Copper		4.71	mg/kg		2.48	SW846-6020
Iron		7250	mg/kg		19.9	SW846-6010B
Lead		5.51	mg/kg		0.993	SW846-6020
Magnesium	N	806	mg/kg		4.97	SW846-6010B
Manganese	N	104	mg/kg		2.48	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel	X	5.66	mg/kg		4.97	SW846-6010B
Selenium	U	0.993	mg/kg		0.993	SW846-6020
Silver	BUX	2.48	mg/kg		2.48	SW846-6010B
Sodium		199	mg/kg		99.3	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium	BU	0.993	mg/kg		0.993	SW846-6020
Vanadium		17.5	mg/kg		2.48	SW846-6010B
Zinc	UX	19.9	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0065	pCi/g	0.0087	0.0372	RL-7128
Alpha activity		2.07	pCi/g	0.881	1.37	RL-7111
Americium-241	U	-0.002	pCi/g	0.0022	0.0307	RL-7128
Beta activity	U	1.45	pCi/g	0.304	1.51	RL-7111
Cesium-137	U	-0.0129	pCi/g	0.0258	0.0421	RL-7124
Cobalt-60	U	-0.0018	pCi/g	0.0037	0.0453	RL-7124
Neptunium-237	U	0.0119	pCi/g	0.0102	0.0675	RL-7128
Plutonium-238	U	-0.0037	pCi/g	0.0025	0.0194	RL-7128
Plutonium-239/240	U	-0.0029	pCi/g	0.0045	0.0198	RL-7128
Technetium-99	U	-0.934	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.322	pCi/g	0.0491	0.109	RL-7128
Thorium-230		0.134	pCi/g	0.04	0.122	RL-7128
Thorium-232		0.306	pCi/g	0.0466	0.0633	RL-7128
Thorium-234	U	0.973	pCi/g	1.95	0.84	RL-7124

003-008

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0111	pCi/g	0.014	0.282	RL-7128
Uranium-234	U	0.00683	pCi/g	0.0219	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0107	pCi/g	0.0199	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg		5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
2-Butanone	U	5.01	ug/kg		5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg		5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg		5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg		5.01	SW846-8260
Acetone	JU	5.01	ug/kg		5.01	SW846-8260
Acrolein	JU	4.99	ug/kg		4.99	SW846-8260
Acrylonitrile	U	5.01	ug/kg		5.01	SW846-8260
Benzene	U	5.01	ug/kg		5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg		5.01	SW846-8260
Bromoform	U	5.01	ug/kg		5.01	SW846-8260
Bromomethane	U	5.01	ug/kg		5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg		5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg		5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg		5.01	SW846-8260
Chloroethane	U	5.01	ug/kg		5.01	SW846-8260
Chloroform	U	5.01	ug/kg		5.01	SW846-8260
Chloromethane	U	5.01	ug/kg		5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg		5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg		5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg		5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg		5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg		5.01	SW846-8260
Iodomethane	U	5.01	ug/kg		5.01	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.01	ug/kg		5.01	SW846-8260
Styrene	U	5.01	ug/kg		5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg		5.01	SW846-8260
Toluene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg		5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg		5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg		5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg		5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg		5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg		5.01	SW846-8260
Vinyl chloride	UY	5.01	ug/kg		5.01	SW846-8260

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003-009

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003009SA001

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6520	mg/kg		19.8	SW846-6010B
Antimony	U	9.48	mg/kg		9.48	SW846-6010B
Arsenic		2.82	mg/kg		0.992	SW846-6020
Barium		87.7	mg/kg		2.48	SW846-6010B
Beryllium	BU	0.496	mg/kg		0.496	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium	*N	24000	mg/kg		99.2	SW846-6010B
Chromium	X	8.87	mg/kg		2.48	SW846-6010B
Cobalt		4.71	mg/kg		2.48	SW846-6010B
Copper		5.95	mg/kg		2.48	SW846-6020
Iron		9430	mg/kg		19.8	SW846-6010B
Lead		8.32	mg/kg		0.992	SW846-6020
Magnesium	N	1140	mg/kg		4.96	SW846-6010B
Manganese	N	341	mg/kg		2.48	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum		3.32	mg/kg		2.48	SW846-6010B
Nickel	X	7.36	mg/kg		4.96	SW846-6010B
Selenium	U	0.992	mg/kg		0.992	SW846-6020
Silver	BUX	2.48	mg/kg		2.48	SW846-6010B
Sodium	U	99.2	mg/kg		99.2	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	BU	0.992	mg/kg		0.992	SW846-6020
Vanadium		18.9	mg/kg		2.48	SW846-6010B
Zinc	X	21	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0059	pCi/g	0.0076	0.0356	RL-7128
Alpha activity		10.2	pCi/g	2.34	2.5	RL-7111
Americium-241	U	-0.0008	pCi/g	0.0046	0.0308	RL-7128
Beta activity		4.83	pCi/g	0.578	1.45	RL-7111
Cesium-137	U	0.0335	pCi/g	0.0669	0.0704	RL-7124
Cobalt-60	U	0.00645	pCi/g	0.0129	0.0588	RL-7124
Neptunium-237	U	0.00089	pCi/g	0.0018	0.068	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0.0014	0.0191	RL-7128
Plutonium-239/240	U	-0.003	pCi/g	0.0043	0.0198	RL-7128
Technetium-99	U	0.32	pCi/g	1.21	1.85	RL-7100
Thorium-228		0.297	pCi/g	0.0549	0.112	RL-7128
Thorium-230		0.46	pCi/g	0.0715	0.126	RL-7128
Thorium-232		0.287	pCi/g	0.0529	0.0666	RL-7128
Thorium-234	U	1.41	pCi/g	2.81	1	RL-7124

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BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.401	pCi/g	0.402	0.28	RL-7128
Uranium-234		0.177	pCi/g	0.0358	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.23	pCi/g	0.0378	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	U	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	U	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg		9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	U	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	UY	4.99	ug/kg		4.99	SW846-8260

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003009SA005

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9340	mg/kg		17.9	SW846-6010B
Antimony	U	9.96	mg/kg		9.96	SW846-6010B
Arsenic		2.93	mg/kg		0.897	SW846-6020
Barium		116	mg/kg		2.24	SW846-6010B
Beryllium	BU	0.448	mg/kg		0.448	SW846-6010B
Cadmium	U	1.79	mg/kg		1.79	SW846-6010B
Calcium	*N	2160	mg/kg		89.7	SW846-6010B
Chromium	X	11.5	mg/kg		2.24	SW846-6010B
Cobalt		4.87	mg/kg		2.24	SW846-6010B
Copper		9.55	mg/kg		2.24	SW846-6020
Iron		11500	mg/kg		17.9	SW846-6010B
Lead		7.64	mg/kg		0.897	SW846-6020
Magnesium	N	1330	mg/kg		4.48	SW846-6010B
Manganese	N	323	mg/kg		2.24	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel	X	9.56	mg/kg		4.48	SW846-6010B
Selenium	U	0.897	mg/kg		0.897	SW846-6020
Silver	BUX	2.24	mg/kg		2.24	SW846-6010B
Sodium	U	89.7	mg/kg		89.7	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium	B	1.17	mg/kg		0.897	SW846-6020
Vanadium		22.3	mg/kg		2.24	SW846-6010B
Zinc	X	31.9	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0012	pCi/g	0.0107	0.0371	RL-7128
Alpha activity		5.94	pCi/g	1.77	1.69	RL-7111
Americium-241	U	-0.0009	pCi/g	0.0043	0.031	RL-7128
Beta activity		3.29	pCi/g	0.588	1.62	RL-7111
Cesium-137	U	0.00487	pCi/g	0.0097	0.0795	RL-7124
Cobalt-60	U	-0.0242	pCi/g	0.0484	0.0636	RL-7124
Neptunium-237	U	0.0049	pCi/g	0.0095	0.0704	RL-7128
Plutonium-238	U	-0.0025	pCi/g	0	0.0203	RL-7128
Plutonium-239/240	U	-0.002	pCi/g	0.0069	0.0216	RL-7128
Technetium-99	U	-0.474	pCi/g	1.18	1.85	RL-7100
Thorium-228		0.38	pCi/g	0.0583	0.11	RL-7128
Thorium-230		0.376	pCi/g	0.0615	0.123	RL-7128
Thorium-232		0.445	pCi/g	0.0626	0.0678	RL-7128
Thorium-234	U	1.36	pCi/g	2.72	1.06	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.342	pCi/g	0.302	0.282	RL-7128
Uranium-234		0.142	pCi/g	0.0352	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.201	pCi/g	0.0376	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	U	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	J	16.7	ug/kg		5.04	SW846-8260
Acrolein	JU	5	ug/kg		5	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	U	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	U	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	UY	5.04	ug/kg		5.04	SW846-8260

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003-009

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003009SA010

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7990	mg/kg		19.4	SW846-6010B
Antimony	U	9.85	mg/kg		9.85	SW846-6010B
Arsenic		2.02	mg/kg		0.969	SW846-6020
Barium		92.6	mg/kg		2.42	SW846-6010B
Beryllium	BU	0.484	mg/kg		0.484	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium	*N	651	mg/kg		96.9	SW846-6010B
Chromium	X	8.77	mg/kg		2.42	SW846-6010B
Cobalt		4.95	mg/kg		2.42	SW846-6010B
Copper		8.06	mg/kg		2.42	SW846-6020
Iron		9130	mg/kg		19.4	SW846-6010B
Lead		5.35	mg/kg		0.969	SW846-6020
Magnesium	N	1110	mg/kg		4.84	SW846-6010B
Manganese	N	298	mg/kg		2.42	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	X	9.6	mg/kg		4.84	SW846-6010B
Selenium	U	0.969	mg/kg		0.969	SW846-6020
Silver	BUX	2.42	mg/kg		2.42	SW846-6010B
Sodium		228	mg/kg		96.9	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	BU	0.969	mg/kg		0.969	SW846-6020
Vanadium		13.4	mg/kg		2.42	SW846-6010B
Zinc	X	27.6	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0112	pCi/g	0.0050	0.0371	RL-7128
Alpha activity		5.05	pCi/g	1.62	1.69	RL-7111
Americium-241	U	-0.0027	pCi/g	0.0008	0.032	RL-7128
Beta activity		3.03	pCi/g	0.554	1.62	RL-7111
Cesium-137	U	0.00073	pCi/g	0.0015	0.0458	RL-7124
Cobalt-60	U	-0.0041	pCi/g	0.0082	0.0519	RL-7124
Neptunium-237	U	0.0046	pCi/g	0.0092	0.0688	RL-7128
Plutonium-238	U	0.00077	pCi/g	0.0046	0.0193	RL-7128
Plutonium-239/240	U	-0.0053	pCi/g	0.0015	0.0203	RL-7128
Technetium-99	U	-0.834	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.405	pCi/g	0.0576	0.11	RL-7128
Thorium-230		0.338	pCi/g	0.0585	0.124	RL-7128
Thorium-232		0.377	pCi/g	0.0545	0.0645	RL-7128
Thorium-234	U	1.22	pCi/g	2.43	0.91	RL-7124

*QUALIFIER Codes See attached List.

003-009

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.158	pCi/g	0.319	0.283	RL-7128
Uranium-234	U	0.0711	pCi/g	0.03	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0982	pCi/g	0.0296	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	JU	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	JU	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	JU	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	JU	9.99	ug/kg		9.99	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	JU	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	JU	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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003-009

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003009SA015

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6520	mg/kg		19	SW846-6010B
Antimony	U	8.94	mg/kg		8.94	SW846-6010B
Arsenic		1.16	mg/kg		0.952	SW846-6020
Barium		53.2	mg/kg		2.38	SW846-6010B
Beryllium	BU	0.476	mg/kg		0.476	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium	*N	1050	mg/kg		95.2	SW846-6010B
Chromium	X	9.48	mg/kg		2.38	SW846-6010B
Cobalt	U	2.38	mg/kg		2.38	SW846-6010B
Copper		4.98	mg/kg		2.38	SW846-6020
Iron		6590	mg/kg		19	SW846-6010B
Lead		4.95	mg/kg		0.952	SW846-6020
Magnesium	N	995	mg/kg		4.76	SW846-6010B
Manganese	N	107	mg/kg		2.38	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.38	mg/kg		2.38	SW846-6010B
Nickel	X	7.56	mg/kg		4.76	SW846-6010B
Selenium	U	0.952	mg/kg		0.952	SW846-6020
Silver	BUX	2.38	mg/kg		2.38	SW846-6010B
Sodium		224	mg/kg		95.2	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	BU	0.952	mg/kg		0.952	SW846-6020
Vanadium		14.9	mg/kg		2.38	SW846-6010B
Zinc	UX	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0102	pCi/g	0.0059	0.0366	RL-7128
Alpha activity		5.77	pCi/g	1.68	1.54	RL-7111
Americium-241	U	-0.0009	pCi/g	0.0044	0.0309	RL-7128
Beta activity		2.57	pCi/g	0.485	1.58	RL-7111
Cesium-137	U	-0.0037	pCi/g	0.0075	0.0445	RL-7124
Cobalt-60	U	0.0132	pCi/g	0.0264	0.054	RL-7124
Neptunium-237	U	-0.0062	pCi/g	0.0055	0.0679	RL-7128
Plutonium-238	U	-0.0005	pCi/g	0.0039	0.0189	RL-7128
Plutonium-239/240	U	-0.0005	pCi/g	0.008	0.0196	RL-7128
Technetium-99	U	-0.607	pCi/g	1.17	1.85	RL-7100
Thorium-228		0.395	pCi/g	0.0627	0.112	RL-7128
Thorium-230		0.344	pCi/g	0.065	0.125	RL-7128
Thorium-232		0.431	pCi/g	0.0645	0.0653	RL-7128
Thorium-234	U	1.49	pCi/g	2.98	0.881	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.122	pCi/g	0.21	0.281	RL-7128
Uranium-234	U	0.0545	pCi/g	0.0269	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0772	pCi/g	0.0262	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg		5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg		5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg		5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg		5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg		5.04	SW846-8260
Acetone	JU	5.04	ug/kg		5.04	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	5.04	ug/kg		5.04	SW846-8260
Benzene	U	5.04	ug/kg		5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg		5.04	SW846-8260
Bromoform	U	5.04	ug/kg		5.04	SW846-8260
Bromomethane	JU	5.04	ug/kg		5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg		5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg		5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg		5.04	SW846-8260
Chloroethane	U	5.04	ug/kg		5.04	SW846-8260
Chloroform	U	5.04	ug/kg		5.04	SW846-8260
Chloromethane	U	5.04	ug/kg		5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg		5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg		5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg		5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg		5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg		5.04	SW846-8260
Iodomethane	U	5.04	ug/kg		5.04	SW846-8260
m,p-Xylene	JU	10.1	ug/kg		10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg		5.04	SW846-8260
Styrene	JU	5.04	ug/kg		5.04	SW846-8260
Tetrachloroethene	JU	5.04	ug/kg		5.04	SW846-8260
Toluene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg		5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg		5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.04	ug/kg		5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg		5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg		5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg		5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg		5.04	SW846-8260

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12/18/2007

003-010

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003010SA001

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5800	mg/kg		19	SW846-6010B
Antimony		10.8	mg/kg		9.13	SW846-6010B
Arsenic		2.3	mg/kg		0.948	SW846-6020
Barium		39.7	mg/kg		2.37	SW846-6010B
Beryllium	BU	0.474	mg/kg		0.474	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium	*NU	94.8	mg/kg		94.8	SW846-6010B
Chromium	X	11.1	mg/kg		2.37	SW846-6010B
Cobalt		2.54	mg/kg		2.37	SW846-6010B
Copper		3.65	mg/kg		2.37	SW846-6020
Iron		8370	mg/kg		19	SW846-6010B
Lead		6.36	mg/kg		0.948	SW846-6020
Magnesium	N	2500	mg/kg		4.74	SW846-6010B
Manganese	N	220	mg/kg		2.37	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum		6.21	mg/kg		2.37	SW846-6010B
Nickel	X	6.25	mg/kg		4.74	SW846-6010B
Selenium	U	0.948	mg/kg		0.948	SW846-6020
Silver	BUX	2.37	mg/kg		2.37	SW846-6010B
Sodium		112	mg/kg		94.8	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	BU	0.948	mg/kg		0.948	SW846-6020
Vanadium		17.1	mg/kg		2.37	SW846-6010B
Zinc	X	27	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.0068	pCi/g	0.0136	0.037	RL-7128
Alpha activity		6.21	pCi/g	1.77	2.62	RL-7111
Americium-241	U	-0.005	pCi/g	0.0039	0.0313	RL-7128
Beta activity		3.96	pCi/g	0.505	1.51	RL-7111
Cesium-137	U	0.0335	pCi/g	0.0345	0.0608	RL-7124
Cobalt-60	U	-0.0047	pCi/g	0.0095	0.0617	RL-7124
Neptunium-237	U	0.00172	pCi/g	0.0034	0.0691	RL-7128
Plutonium-238	U	0.00082	pCi/g	0.0047	0.0197	RL-7128
Plutonium-239/240	U	-0.0053	pCi/g	0.0015	0.0201	RL-7128
Technetium-99	U	-0.2	pCi/g	1.22	1.85	RL-7100
Thorium-228		0.291	pCi/g	0.0507	0.11	RL-7128
Thorium-230		0.306	pCi/g	0.0573	0.124	RL-7128
Thorium-232		0.313	pCi/g	0.0516	0.0639	RL-7128
Thorium-234	U	0.465	pCi/g	0.931	0.871	RL-7124

003-010

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.389	pCi/g	0.274	0.284	RL-7128
Uranium-234		0.154	pCi/g	0.0395	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.228	pCi/g	0.0434	0.119	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,1-Trichloroethane	JU	4.99	ug/kg		4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg		4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
2-Butanone	JU	4.99	ug/kg		4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg		4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg		4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg		4.99	SW846-8260
Acetone	JU	4.99	ug/kg		4.99	SW846-8260
Acrolein	JU	4.96	ug/kg		4.96	SW846-8260
Acrylonitrile	U	4.99	ug/kg		4.99	SW846-8260
Benzene	U	4.99	ug/kg		4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg		4.99	SW846-8260
Bromoform	U	4.99	ug/kg		4.99	SW846-8260
Bromomethane	JU	4.99	ug/kg		4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg		4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg		4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg		4.99	SW846-8260
Chloroethane	U	4.99	ug/kg		4.99	SW846-8260
Chloroform	U	4.99	ug/kg		4.99	SW846-8260
Chloromethane	U	4.99	ug/kg		4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg		4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg		4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg		4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg		4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg		4.99	SW846-8260
Iodomethane	U	4.99	ug/kg		4.99	SW846-8260
m,p-Xylene	JU	9.99	ug/kg		9.99	SW846-8260
Methylene chloride	U	4.99	ug/kg		4.99	SW846-8260
Styrene	JU	4.99	ug/kg		4.99	SW846-8260
Tetrachloroethene	JU	4.99	ug/kg		4.99	SW846-8260
Toluene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg		4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg		4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.99	ug/kg		4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg		4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg		4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg		4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg		4.99	SW846-8260

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003-010

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003010SA005

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4920	mg/kg		18.7	SW846-6010B
Antimony	U	9.22	mg/kg		9.22	SW846-6010B
Arsenic		2.68	mg/kg		0.935	SW846-6020
Barium		35.3	mg/kg		2.34	SW846-6010B
Beryllium	BU	0.468	mg/kg		0.468	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium	*N	643	mg/kg		93.5	SW846-6010B
Chromium	X	5.7	mg/kg		2.34	SW846-6010B
Cobalt	U	2.34	mg/kg		2.34	SW846-6010B
Copper		4.17	mg/kg		2.34	SW846-6020
Iron		6690	mg/kg		18.7	SW846-6010B
Lead		6.67	mg/kg		0.935	SW846-6020
Magnesium	N	534	mg/kg		4.68	SW846-6010B
Manganese	N	233	mg/kg		2.34	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	UX	4.68	mg/kg		4.68	SW846-6010B
Selenium	U	0.935	mg/kg		0.935	SW846-6020
Silver	BUX	2.34	mg/kg		2.34	SW846-6010B
Sodium	U	93.5	mg/kg		93.5	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	BU	0.935	mg/kg		0.935	SW846-6020
Vanadium		15	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0049	pCi/g	0.0086	0.0365	RL-7128
Alpha activity		7.62	pCi/g	2	1.65	RL-7111
Americium-241	U	0.00244	pCi/g	0.0064	0.0324	RL-7128
Beta activity		4.9	pCi/g	0.782	1.61	RL-7111
Cesium-137	U	-0.0211	pCi/g	0.0422	0.0866	RL-7124
Cobalt-60	U	0.0236	pCi/g	0.0472	0.0928	RL-7124
Neptunium-237	U	-0.0007	pCi/g	0.0014	0.0677	RL-7128
Plutonium-238	U	-0.0038	pCi/g	0.0026	0.0204	RL-7128
Plutonium-239/240	U	-0.0057	pCi/g	0.0007	0.0213	RL-7128
Technetium-99	U	-0.36	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.353	pCi/g	0.0549	0.111	RL-7128
Thorium-230		0.25	pCi/g	0.0528	0.123	RL-7128
Thorium-232		0.375	pCi/g	0.0551	0.0654	RL-7128
Thorium-234	U	1.1	pCi/g	2.21	1.36	RL-7124

*QUALIFIER Codes See attached List.

003-010

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.125	pCi/g	0.128	0.281	RL-7128
Uranium-234	U	0.045	pCi/g	0.0264	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0846	pCi/g	0.0283	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,1-Trichloroethane	JU	5	ug/kg		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg		5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg		5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg		5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg		5	SW846-8260
2-Butanone	JU	5	ug/kg		5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg		5	SW846-8260
2-Hexanone	U	5	ug/kg		5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg		5	SW846-8260
Acetone	JU	5	ug/kg		5	SW846-8260
Acrolein	JU	5.03	ug/kg		5.03	SW846-8260
Acrylonitrile	U	5	ug/kg		5	SW846-8260
Benzene	U	5	ug/kg		5	SW846-8260
Bromodichloromethane	U	5	ug/kg		5	SW846-8260
Bromoform	U	5	ug/kg		5	SW846-8260
Bromomethane	JU	5	ug/kg		5	SW846-8260
Carbon disulfide	U	5	ug/kg		5	SW846-8260
Carbon tetrachloride	U	5	ug/kg		5	SW846-8260
Chlorobenzene	U	5	ug/kg		5	SW846-8260
Chloroethane	U	5	ug/kg		5	SW846-8260
Chloroform	U	5	ug/kg		5	SW846-8260
Chloromethane	U	5	ug/kg		5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Dibromochloromethane	U	5	ug/kg		5	SW846-8260
Dibromomethane	U	5	ug/kg		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg		5	SW846-8260
Ethyl methacrylate	U	5	ug/kg		5	SW846-8260
Ethylbenzene	U	5	ug/kg		5	SW846-8260
Iodomethane	U	5	ug/kg		5	SW846-8260
m,p-Xylene	JU	10	ug/kg		10	SW846-8260
Methylene chloride	U	5	ug/kg		5	SW846-8260
Styrene	JU	5	ug/kg		5	SW846-8260
Tetrachloroethene	JU	5	ug/kg		5	SW846-8260
Toluene	U	5	ug/kg		5	SW846-8260
trans-1,2-Dichloroethene	U	5	ug/kg		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/kg		5	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5	ug/kg		5	SW846-8260
Trichloroethene	U	5	ug/kg		5	SW846-8260
Trichlorofluoromethane	U	5	ug/kg		5	SW846-8260
Vinyl acetate	U	5	ug/kg		5	SW846-8260
Vinyl chloride	U	5	ug/kg		5	SW846-8260

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003-010

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003010SA010

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6300	mg/kg		18.5	SW846-6010B
Antimony		10.1	mg/kg		9.75	SW846-6010B
Arsenic		2.61	mg/kg		0.925	SW846-6020
Barium		122	mg/kg		2.31	SW846-6010B
Beryllium	BU	0.462	mg/kg		0.462	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium	*N	1190	mg/kg		92.5	SW846-6010B
Chromium	X	9.9	mg/kg		2.31	SW846-6010B
Cobalt		4.74	mg/kg		2.31	SW846-6010B
Copper		7.79	mg/kg		2.31	SW846-6020
Iron		9930	mg/kg		18.5	SW846-6010B
Lead		6.48	mg/kg		0.925	SW846-6020
Magnesium	N	1290	mg/kg		4.62	SW846-6010B
Manganese	N	438	mg/kg		2.31	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel	X	16.1	mg/kg		4.62	SW846-6010B
Selenium	U	0.925	mg/kg		0.925	SW846-6020
Silver	BUX	2.31	mg/kg		2.31	SW846-6010B
Sodium		224	mg/kg		92.5	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	BU	0.925	mg/kg		0.925	SW846-6020
Vanadium		18.2	mg/kg		2.31	SW846-6010B
Zinc	X	24	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0038	pCi/g	0.0081	0.0362	RL-7128
Alpha activity		5.85	pCi/g	1.78	1.71	RL-7111
Americium-241	U	-0.0006	pCi/g	0.0049	0.0307	RL-7128
Beta activity		1.86	pCi/g	0.378	1.62	RL-7111
Cesium-137	U	-0.018	pCi/g	0.0361	0.0479	RL-7124
Cobalt-60	U	0.0259	pCi/g	0.0518	0.0595	RL-7124
Neptunium-237	U	0.0104	pCi/g	0.0117	0.0685	RL-7128
Plutonium-238	U	-2E-06	pCi/g	0.005	0.0196	RL-7128
Plutonium-239/240	U	-0.0005	pCi/g	0.0062	0.0204	RL-7128
Technetium-99	U	-0.647	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.307	pCi/g	0.0517	0.11	RL-7128
Thorium-230		0.194	pCi/g	0.0494	0.124	RL-7128
Thorium-232		0.324	pCi/g	0.0528	0.0653	RL-7128
Thorium-234	U	1.49	pCi/g	2.98	0.916	RL-7124

*QUALIFIER Codes See attached List.

003-010

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.0293	pCi/g	0.0262	0.281	RL-7128
Uranium-234	U	0.00249	pCi/g	0.0211	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0306	pCi/g	0.0226	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,1-Trichloroethane	JU	4.98	ug/kg		4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg		4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
2-Butanone	JU	4.98	ug/kg		4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg		4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg		4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg		4.98	SW846-8260
Acetone	JU	4.98	ug/kg		4.98	SW846-8260
Acrolein	JU	5.01	ug/kg		5.01	SW846-8260
Acrylonitrile	U	4.98	ug/kg		4.98	SW846-8260
Benzene	U	4.98	ug/kg		4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg		4.98	SW846-8260
Bromoform	U	4.98	ug/kg		4.98	SW846-8260
Bromomethane	JU	4.98	ug/kg		4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg		4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg		4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg		4.98	SW846-8260
Chloroethane	U	4.98	ug/kg		4.98	SW846-8260
Chloroform	U	4.98	ug/kg		4.98	SW846-8260
Chloromethane	U	4.98	ug/kg		4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg		4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg		4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg		4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg		4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg		4.98	SW846-8260
Iodomethane	U	4.98	ug/kg		4.98	SW846-8260
m,p-Xylene	JU	9.95	ug/kg		9.95	SW846-8260
Methylene chloride	U	4.98	ug/kg		4.98	SW846-8260
Styrene	JU	4.98	ug/kg		4.98	SW846-8260
Tetrachloroethene	JU	4.98	ug/kg		4.98	SW846-8260
Toluene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg		4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg		4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.98	ug/kg		4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg		4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg		4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg		4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg		4.98	SW846-8260

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003-010

BGOU07-SWMU3V Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

003010SA015

Collected: 2/6/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4620	mg/kg		18.1	SW846-6010B
Antimony	U	9.34	mg/kg		9.34	SW846-6010B
Arsenic		1.27	mg/kg		0.906	SW846-6020
Barium		57.5	mg/kg		2.27	SW846-6010B
Beryllium	BU	0.453	mg/kg		0.453	SW846-6010B
Cadmium	U	1.81	mg/kg		1.81	SW846-6010B
Calcium	*N	873	mg/kg		90.6	SW846-6010B
Chromium	X	6.93	mg/kg		2.27	SW846-6010B
Cobalt		2.28	mg/kg		2.27	SW846-6010B
Copper		4.68	mg/kg		2.27	SW846-6020
Iron		6300	mg/kg		18.1	SW846-6010B
Lead		5.73	mg/kg		0.906	SW846-6020
Magnesium	N	778	mg/kg		4.53	SW846-6010B
Manganese	N	96.7	mg/kg		2.27	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel	X	5.23	mg/kg		4.53	SW846-6010B
Selenium	U	0.906	mg/kg		0.906	SW846-6020
Silver	BUX	2.27	mg/kg		2.27	SW846-6010B
Sodium		201	mg/kg		90.6	SW846-6010B
Thallium	U	1.81	mg/kg		1.81	SW846-6020
Uranium	BU	0.906	mg/kg		0.906	SW846-6020
Vanadium		13.9	mg/kg		2.27	SW846-6010B
Zinc	UX	18.1	mg/kg		18.1	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.012	pCi/g	0.0034	0.0372	RL-7128
Alpha activity		5.63	pCi/g	1.66	1.54	RL-7111
Americium-241	U	-0.0027	pCi/g	0.0008	0.0309	RL-7128
Beta activity		2.37	pCi/g	0.455	1.58	RL-7111
Cesium-137	U	0.0156	pCi/g	0.0312	0.0547	RL-7124
Cobalt-60	U	0.0094	pCi/g	0.0188	0.0529	RL-7124
Neptunium-237	U	-0.0009	pCi/g	0.0019	0.0689	RL-7128
Plutonium-238	U	-0.0008	pCi/g	0.0034	0.0198	RL-7128
Plutonium-239/240	U	-0.0087	pCi/g	0.0037	0.0208	RL-7128
Technetium-99	U	-0.927	pCi/g	1.16	1.85	RL-7100
Thorium-228		0.335	pCi/g	0.0547	0.111	RL-7128
Thorium-230		0.205	pCi/g	0.051	0.123	RL-7128
Thorium-232		0.338	pCi/g	0.0549	0.0647	RL-7128
Thorium-234	U	1.21	pCi/g	2.41	0.867	RL-7124

*QUALIFIER Codes See attached List.

003-010

BGOU07-SWMU3V

Burial Ground OU SWMU 3 Vertical Borings BGOU07-SWMU3VSB1

Uranium	U	0.027	pCi/g	0.0549	0.283	RL-7128
Uranium-234	U	0.0275	pCi/g	0.0257	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0114	pCi/g	0.0206	0.118	RL-7128
VOA						
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,1-Trichloroethane	JU	5.02	ug/kg		5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg		5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
2-Butanone	JU	5.02	ug/kg		5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg		5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg		5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg		5.02	SW846-8260
Acetone	JU	5.02	ug/kg		5.02	SW846-8260
Acrolein	JU	4.97	ug/kg		4.97	SW846-8260
Acrylonitrile	U	5.02	ug/kg		5.02	SW846-8260
Benzene	U	5.02	ug/kg		5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg		5.02	SW846-8260
Bromoform	U	5.02	ug/kg		5.02	SW846-8260
Bromomethane	JU	5.02	ug/kg		5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg		5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg		5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg		5.02	SW846-8260
Chloroethane	U	5.02	ug/kg		5.02	SW846-8260
Chloroform	U	5.02	ug/kg		5.02	SW846-8260
Chloromethane	U	5.02	ug/kg		5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg		5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg		5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg		5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg		5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg		5.02	SW846-8260
Iodomethane	U	5.02	ug/kg		5.02	SW846-8260
m,p-Xylene	U	10	ug/kg		10	SW846-8260
Methylene chloride	U	5.02	ug/kg		5.02	SW846-8260
Styrene	JU	5.02	ug/kg		5.02	SW846-8260
Tetrachloroethene	JU	5.02	ug/kg		5.02	SW846-8260
Toluene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg		5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg		5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.02	ug/kg		5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg		5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg		5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg		5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg		5.02	SW846-8260

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005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101SA010

Collected: 5/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6150	mg/kg		19.2	SW846-6010B
Antimony	U	9.8	mg/kg		9.8	SW846-6010B
Arsenic		2.58	mg/kg		0.959	SW846-6020
Barium	N	141	mg/kg		2.4	SW846-6010B
Beryllium	U	0.48	mg/kg		0.48	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium	*N	911	mg/kg		95.9	SW846-6010B
Chromium		9.65	mg/kg		2.4	SW846-6010B
Cobalt		14.3	mg/kg		2.4	SW846-6010B
Copper	NX	8.09	mg/kg		2.4	SW846-6020
Iron		9640	mg/kg		19.2	SW846-6010B
Lead		11.3	mg/kg		0.959	SW846-6020
Magnesium	*N	1050	mg/kg		4.8	SW846-6010B
Manganese	*N	690	mg/kg		2.4	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel	N	13.7	mg/kg		4.8	SW846-6010B
Selenium	U	0.959	mg/kg		0.959	SW846-6020
Silver	U	2.4	mg/kg		2.4	SW846-6010B
Sodium		164	mg/kg		95.9	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium	BU	0.959	mg/kg		0.959	SW846-6020
Vanadium	X	20.3	mg/kg		2.4	SW846-6010B
Zinc	N	19.4	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00551	pCi/g	0.0099	0.0379	RL-7128
Alpha activity		4.98	pCi/g	1.59	1.55	RL-7111
Americium-241	U	-0.0107	pCi/g	0.0071	0.0213	RL-7128
Beta activity		1.75	pCi/g	0.354	1.63	RL-7111
Cesium-137	U	0.00866	pCi/g	0.0173	0.048	RL-7124
Cobalt-60	U	0.00498	pCi/g	0.01	0.0506	RL-7124
Neptunium-237	U	-0.0031	pCi/g	0.0053	0.0294	RL-7128
Plutonium-238	U	0.00155	pCi/g	0.0065	0.0162	RL-7128
Plutonium-239/240	U	-0.0012	pCi/g	0.0043	0.0188	RL-7128
Technetium-99	U	-0.437	pCi/g	1.11	1.73	RL-7100
Thorium-228		0.285	pCi/g	0.0511	0.0852	RL-7128
Thorium-230		0.215	pCi/g	0.0489	0.116	RL-7128
Thorium-232		0.304	pCi/g	0.0504	0.0676	RL-7128
Thorium-234	U	1.25	pCi/g	2.5	0.846	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.0115	pCi/g	0.0153	0.277	RL-7128
Uranium-234	U	0.00143	pCi/g	0.025	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00453	pCi/g	0.0223	0.113	RL-7128

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101SA015

Collected: 5/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7180	mg/kg		19.7	SW846-6010B
Antimony	U	9.32	mg/kg		9.32	SW846-6010B
Arsenic		1.83	mg/kg		0.985	SW846-6020
Barium	N	53.6	mg/kg		2.46	SW846-6010B
Beryllium	U	0.493	mg/kg		0.493	SW846-6010B
Cadmium	U	1.97	mg/kg		1.97	SW846-6010B
Calcium	*N	905	mg/kg		98.5	SW846-6010B
Chromium		8.17	mg/kg		2.46	SW846-6010B
Cobalt		10.7	mg/kg		2.46	SW846-6010B
Copper	NX	4.61	mg/kg		2.46	SW846-6020
Iron		10700	mg/kg		19.7	SW846-6010B
Lead		9.03	mg/kg		0.985	SW846-6020
Magnesium	*N	736	mg/kg		4.93	SW846-6010B
Manganese	*N	385	mg/kg		2.46	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.46	mg/kg		2.46	SW846-6010B
Nickel	N	6.94	mg/kg		4.93	SW846-6010B
Selenium	U	0.985	mg/kg		0.985	SW846-6020
Silver	U	2.46	mg/kg		2.46	SW846-6010B
Sodium		169	mg/kg		98.5	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium	BU	0.985	mg/kg		0.985	SW846-6020
Vanadium	X	20.6	mg/kg		2.46	SW846-6010B
Zinc	NU	19.7	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0003	pCi/g	0.0038	0.0374	RL-7128
Alpha activity		4.68	pCi/g	1.44	1.35	RL-7111
Americium-241	U	-0.0125	pCi/g	0.0034	0.0208	RL-7128
Beta activity		2.08	pCi/g	0.396	1.41	RL-7111
Cesium-137	U	-0.0104	pCi/g	0.0208	0.0369	RL-7124
Cobalt-60	U	0.00588	pCi/g	0.0118	0.0451	RL-7124
Neptunium-237	U	-0.0021	pCi/g	0.0073	0.0288	RL-7128
Plutonium-238	U	-0.0020	pCi/g	0	0.0169	RL-7128
Plutonium-239/240	U	-0.0088	pCi/g	0.0055	0.0187	RL-7128
Technetium-99	U	-0.437	pCi/g	1.12	1.73	RL-7100
Thorium-228		0.311	pCi/g	0.0513	0.0853	RL-7128
Thorium-230		0.213	pCi/g	0.048	0.113	RL-7128
Thorium-232		0.337	pCi/g	0.0512	0.0667	RL-7128
Thorium-234	U	1.53	pCi/g	3.06	0.873	RL-7124

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.144	pCi/g	0.29	0.276	RL-7128
Uranium-234	U	0.0539	pCi/g	0.0291	0.125	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0903	pCi/g	0.0295	0.113	RL-7128

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005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101SA030

Collected: 5/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5630	mg/kg		18.5	SW846-6010B
Antimony	U	8.96	mg/kg		8.96	SW846-6010B
Arsenic		3.16	mg/kg		0.926	SW846-6020
Barium	N	18.4	mg/kg		2.32	SW846-6010B
Beryllium	BU	0.463	mg/kg		0.463	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium	*N	659	mg/kg		92.6	SW846-6010B
Chromium		7.3	mg/kg		2.32	SW846-6010B
Cobalt	U	2.32	mg/kg		2.32	SW846-6010B
Copper	NX	4.16	mg/kg		2.32	SW846-6020
Iron		14700	mg/kg		18.5	SW846-6010B
Lead		5.77	mg/kg		0.926	SW846-6020
Magnesium	*N	320	mg/kg		4.63	SW846-6010B
Manganese	*N	76.2	mg/kg		2.32	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.32	mg/kg		2.32	SW846-6010B
Nickel	NU	4.63	mg/kg		4.63	SW846-6010B
Selenium	U	0.926	mg/kg		0.926	SW846-6020
Silver	U	2.32	mg/kg		2.32	SW846-6010B
Sodium	U	92.6	mg/kg		92.6	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	BU	0.926	mg/kg		0.926	SW846-6020
Vanadium	X	27.7	mg/kg		2.32	SW846-6010B
Zinc	NU	18.5	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00552	pCi/g	0.0077	0.038	RL-7128
Alpha activity		2.32	pCi/g	0.966	1.37	RL-7111
Americium-241	U	-0.0089	pCi/g	0.0061	0.0222	RL-7128
Beta activity		1.59	pCi/g	0.322	1.52	RL-7111
Cesium-137	U	-0.0133	pCi/g	0.0266	0.0493	RL-7124
Cobalt-60	U	0.0333	pCi/g	0.0666	0.0496	RL-7124
Neptunium-237	U	-0.0121	pCi/g	0.0098	0.0292	RL-7128
Plutonium-238	U	0.00125	pCi/g	0.0047	0.0159	RL-7128
Plutonium-239/240	U	-0.0062	pCi/g	0.004	0.0183	RL-7128
Technetium-99	U	0.572	pCi/g	1.14	1.73	RL-7100
Thorium-228		0.193	pCi/g	0.0441	0.0858	RL-7128
Thorium-230	U	0.0294	pCi/g	0.0349	0.118	RL-7128
Thorium-232		0.175	pCi/g	0.0413	0.0735	RL-7128
Thorium-234	U	1.87	pCi/g	3.74	0.958	RL-7124

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.0484	pCi/g	0.0515	0.277	RL-7128
Uranium-234	U	0.0276	pCi/g	0.0292	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0153	pCi/g	0.0233	0.114	RL-7128

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101SA045

Collected: 5/17/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		992	mg/kg		18.3	SW846-6010B
Antimony	U	8.46	mg/kg		8.46	SW846-6010B
Arsenic	U	0.913	mg/kg		0.913	SW846-6020
Barium	N	6.16	mg/kg		2.28	SW846-6010B
Beryllium	BU	0.457	mg/kg		0.457	SW846-6010B
Cadmium	U	1.83	mg/kg		1.83	SW846-6010B
Calcium	*N	130	mg/kg		91.3	SW846-6010B
Chromium	U	2.28	mg/kg		2.28	SW846-6010B
Cobalt	U	2.28	mg/kg		2.28	SW846-6010B
Copper	NUX	2.28	mg/kg		2.28	SW846-6020
Iron		1330	mg/kg		18.3	SW846-6010B
Lead		1.01	mg/kg		0.913	SW846-6020
Magnesium	*N	61.1	mg/kg		4.57	SW846-6010B
Manganese	*N	15.5	mg/kg		2.28	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel	NU	4.57	mg/kg		4.57	SW846-6010B
Selenium	U	0.913	mg/kg		0.913	SW846-6020
Silver	U	2.28	mg/kg		2.28	SW846-6010B
Sodium	U	91.3	mg/kg		91.3	SW846-6010B
Thallium	U	1.83	mg/kg		1.83	SW846-6020
Uranium	BU	0.913	mg/kg		0.913	SW846-6020
Vanadium	X	6.28	mg/kg		2.28	SW846-6010B
Zinc	NU	18.3	mg/kg		18.3	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0035	pCi/g	0.0025	0.0374	RL-7128
Alpha activity		1.86	pCi/g	0.855	1.36	RL-7111
Americium-241	U	-0.0082	pCi/g	0.006	0.021	RL-7128
Beta activity	U	0.539	pCi/g	0.124	1.49	RL-7111
Cesium-137	U	-0.0156	pCi/g	0.0312	0.0318	RL-7124
Cobalt-60	U	0.00578	pCi/g	0.0116	0.0376	RL-7124
Neptunium-237	U	-0.0018	pCi/g	0.0055	0.0259	RL-7128
Plutonium-238	U	-0.0006	pCi/g	0.0029	0.0147	RL-7128
Plutonium-239/240	U	-0.0019	pCi/g	0.0029	0.0165	RL-7128
Technetium-99	U	-0.283	pCi/g	1.1	1.73	RL-7100
Thorium-228	U	0.0346	pCi/g	0.0195	0.0835	RL-7128
Thorium-230	U	-0.0381	pCi/g	0.0159	0.113	RL-7128
Thorium-232		0.0661	pCi/g	0.0204	0.0644	RL-7128
Thorium-234	U	0.378	pCi/g	0.756	0.658	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	-0.0842	pCi/g	0.176	0.276	RL-7128
Uranium-234	U	-0.0586	pCi/g	0.0177	0.126	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0221	pCi/g	0.0171	0.113	RL-7128

Paducah-OREIS Data Report

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101WA060

Collected: 5/17/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9.59	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	NU	0.01	mg/L		0.01	SW846-6020
Barium		0.164	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		38.7	mg/L		1	SW846-6010B
Chromium	U	0.1	mg/L		0.1	SW846-6020
Cobalt	NU	0.01	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		34.7	mg/L		0.05	SW846-6010B
Lead		0.00208	mg/L		0.0013	SW846-6020
Magnesium		15.6	mg/L		0.025	SW846-6010B
Manganese		0.712	mg/L		0.05	SW846-6020
Mercury	JUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0376	mg/L		0.001	SW846-6020
Nickel	NU	0.05	mg/L		0.05	SW846-6020
Selenium		0.0102	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	43.5	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	BU	0.001	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	UX	0.2	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00192	mg/L		0.001	SW846-6020
Barium, Dissolved		0.151	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		39.1	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.00837	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		24.8	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		15.3	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	0.626	mg/L		0.005	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.029	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0372	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0099	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		44	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.0294	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

005-101

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

PPCB						
PCB-1016	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	0.0333	pCi/L	0.0318	0.0657	RL-7128
Activity of U-235	U	0.00626	pCi/L	0.0182	0.0459	RL-7128
Alpha activity	MUX	1.98	pCi/L	0.679	3.12	SW846-9310
Americium-241	U	-0.0064	pCi/L	0.0142	0.0876	RL-7128
Beta activity	X	4.13	pCi/L	0.437	3.06	SW846-9310
Cesium-137	U	0.118	pCi/L	0.236	0.808	RL-7124
Neptunium-237	U	-0.0155	pCi/L	0.0052	0.0644	RL-7128
Plutonium-238	U	0.00404	pCi/L	0.0089	0.0284	RL-7128
Plutonium-239/240	U	-0.003	pCi/L	0	0.0282	RL-7128
Technetium-99	U	0.236	pCi/L	1.18	0.609	RL-7100
Thorium-228	U	0.0606	pCi/L	0.0481	0.13	RL-7128
Thorium-230	U	0.0112	pCi/L	0.0448	0.196	RL-7128
Thorium-232	U	0.0243	pCi/L	0.0259	0.0661	RL-7128
Thorium-234	U	-7.86	pCi/L	15.7	20.8	RL-7124
Uranium	U	0.46	pCi/L	0.442	0.489	RL-7128
Uranium-234	U	0.0721	pCi/L	0.0402	0.352	RL-7128
Uranium-234	U	0.0233	pCi/L	0.0267	0.35	RL-7128
Uranium-238		0.354	pCi/L	0.0675	0.0716	RL-7128
Uranium-238		0.0809	pCi/L	0.0352	0.0657	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005101SA060

Collected: 5/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4950	mg/kg		19.7	SW846-6010B
Antimony	U	9.66	mg/kg		9.66	SW846-6010B
Arsenic		1.04	mg/kg		0.987	SW846-6020
Barium	N	32.1	mg/kg		2.47	SW846-6010B
Beryllium	BU	0.493	mg/kg		0.493	SW846-6010B
Cadmium	U	1.97	mg/kg		1.97	SW846-6010B
Calcium	*N	412	mg/kg		98.7	SW846-6010B
Chromium		5.82	mg/kg		2.47	SW846-6010B
Cobalt	U	2.47	mg/kg		2.47	SW846-6010B
Copper	NX	3.43	mg/kg		2.47	SW846-6020
Iron		8310	mg/kg		19.7	SW846-6010B
Lead		3.13	mg/kg		0.987	SW846-6020
Magnesium	*N	583	mg/kg		4.93	SW846-6010B
Manganese	*N	80.8	mg/kg		2.47	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	N	5.61	mg/kg		4.93	SW846-6010B
Selenium	U	0.987	mg/kg		0.987	SW846-6020
Silver	U	2.47	mg/kg		2.47	SW846-6010B
Sodium	U	98.7	mg/kg		98.7	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium	BU	0.987	mg/kg		0.987	SW846-6020
Vanadium	X	15.1	mg/kg		2.47	SW846-6010B
Zinc	N	24.5	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0107	pCi/g	0.0117	0.0385	RL-7128
Alpha activity		4.54	pCi/g	1.49	1.51	RL-7111
Americium-241	U	-0.0094	pCi/g	0.0056	0.0212	RL-7128
Beta activity		2.04	pCi/g	0.4	1.62	RL-7111
Cesium-137	U	0.00015	pCi/g	0.0003	0.0517	RL-7124
Cobalt-60	U	-0.0144	pCi/g	0.0289	0.0452	RL-7124
Neptunium-237	U	-0.0035	pCi/g	0.0045	0.0275	RL-7128
Plutonium-238	U	-0.0005	pCi/g	0.0031	0.0162	RL-7128
Plutonium-239/240	U	0.00289	pCi/g	0.0063	0.0175	RL-7128
Technetium-99	U	-0.411	pCi/g	1.09	1.73	RL-7100
Thorium-228		0.243	pCi/g	0.0467	0.0859	RL-7128
Thorium-230		0.148	pCi/g	0.0431	0.117	RL-7128
Thorium-232		0.269	pCi/g	0.0477	0.0705	RL-7128
Thorium-234	U	2.49	pCi/g	4.98	0.925	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.243	pCi/g	0.23	0.28	RL-7128
Uranium-234		0.128	pCi/g	0.0412	0.127	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.104	pCi/g	0.0346	0.114	RL-7128

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005-102

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102SA010

Collected: 4/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5370	mg/kg		18	SW846-6010B
Antimony	U	9.76	mg/kg		9.76	SW846-6010B
Arsenic		3.07	mg/kg		0.901	SW846-6020
Barium		97.5	mg/kg		2.25	SW846-6010B
Beryllium	BU	0.451	mg/kg		0.451	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium		967	mg/kg		90.1	SW846-6010B
Chromium		8.84	mg/kg		2.25	SW846-6010B
Cobalt	X	4.83	mg/kg		2.25	SW846-6010B
Copper	X	7.73	mg/kg		2.25	SW846-6020
Iron		11100	mg/kg		18	SW846-6010B
Lead		7.2	mg/kg		0.901	SW846-6020
Magnesium		1050	mg/kg		4.51	SW846-6010B
Manganese	*N	343	mg/kg		2.25	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel		11.5	mg/kg		4.51	SW846-6010B
Selenium	U	0.901	mg/kg		0.901	SW846-6020
Silver	*NUX	2.25	mg/kg		2.25	SW846-6010B
Sodium		150	mg/kg		90.1	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	BU	0.901	mg/kg		0.901	SW846-6020
Vanadium	X	20.5	mg/kg		2.25	SW846-6010B
Zinc	X	26.9	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00748	pCi/g	0.0067	0.0372	RL-7128
Alpha activity		5.47	pCi/g	1.73	1.47	RL-7111
Americium-241	U	-0.0086	pCi/g	0.0054	0.0215	RL-7128
Beta activity		2.58	pCi/g	0.519	1.38	RL-7111
Cesium-137	U	-0.0305	pCi/g	0.061	0.0718	RL-7124
Cobalt-60	U	-0.0082	pCi/g	0.0165	0.0763	RL-7124
Neptunium-237	U	-0.0075	pCi/g	0.0008	0.0258	RL-7128
Plutonium-238	U	0.00054	pCi/g	0.0033	0.0162	RL-7128
Plutonium-239/240	U	-0.0016	pCi/g	0.0056	0.0164	RL-7128
Technetium-99	U	-1.13	pCi/g	1.12	1.77	RL-7100
Thorium-228		0.323	pCi/g	0.0765	0.0762	RL-7128
Thorium-230		0.264	pCi/g	0.0738	0.233	RL-7128
Thorium-232		0.303	pCi/g	0.0706	0.171	RL-7128
Thorium-234	U	1.26	pCi/g	2.52	1.28	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.157	pCi/g	0.147	0.299	RL-7128
Uranium-234	U	0.0704	pCi/g	0.028	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0794	pCi/g	0.0267	0.124	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102SA015

Collected: 4/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6620	mg/kg		18.8	SW846-6010B
Antimony	U	9.47	mg/kg		9.47	SW846-6010B
Arsenic		1.71	mg/kg		0.94	SW846-6020
Barium		60.8	mg/kg		2.35	SW846-6010B
Beryllium	BU	0.47	mg/kg		0.47	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		975	mg/kg		94	SW846-6010B
Chromium		11.2	mg/kg		2.35	SW846-6010B
Cobalt	X	3.12	mg/kg		2.35	SW846-6010B
Copper	X	5.53	mg/kg		2.35	SW846-6020
Iron		8620	mg/kg		18.8	SW846-6010B
Lead		6.52	mg/kg		0.94	SW846-6020
Magnesium		886	mg/kg		4.7	SW846-6010B
Manganese	*N	136	mg/kg		2.35	SW846-6010B
Mercury	BU	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel		7.6	mg/kg		4.7	SW846-6010B
Selenium	U	0.94	mg/kg		0.94	SW846-6020
Silver	*NUX	2.35	mg/kg		2.35	SW846-6010B
Sodium		168	mg/kg		94	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	BU	0.94	mg/kg		0.94	SW846-6020
Vanadium	X	24.6	mg/kg		2.35	SW846-6010B
Zinc	UX	18.8	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00177	pCi/g	0.0035	0.0386	RL-7128
Alpha activity		3.84	pCi/g	1.4	1.43	RL-7111
Americium-241	U	-0.0114	pCi/g	0.0036	0.0221	RL-7128
Beta activity		2.46	pCi/g	0.499	1.37	RL-7111
Cesium-137	U	3.7E-05	pCi/g	7E-05	0.0661	RL-7124
Cobalt-60	U	0.00599	pCi/g	0.012	0.0697	RL-7124
Neptunium-237	U	-0.0111	pCi/g	0.008	0.0296	RL-7128
Plutonium-238	U	-0.0007	pCi/g	0.0009	0.0167	RL-7128
Plutonium-239/240	U	-0.0061	pCi/g	0.0027	0.0171	RL-7128
Technetium-99	U	0.0258	pCi/g	1.1	1.77	RL-7100
Thorium-228		0.312	pCi/g	0.0635	0.0702	RL-7128
Thorium-230	U	0.202	pCi/g	0.0582	0.232	RL-7128
Thorium-232		0.287	pCi/g	0.0577	0.167	RL-7128
Thorium-234	U	1.15	pCi/g	2.31	1.24	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.0545	pCi/g	0.111	0.301	RL-7128
Uranium-234	U	0.0185	pCi/g	0.0226	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0343	pCi/g	0.0227	0.124	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102SA030

Collected: 4/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4950	mg/kg		18.2	SW846-6010B
Antimony	U	9.5	mg/kg		9.5	SW846-6010B
Arsenic		3.45	mg/kg		0.909	SW846-6020
Barium		11.1	mg/kg		2.27	SW846-6010B
Beryllium	BU	0.454	mg/kg		0.454	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium		638	mg/kg		90.9	SW846-6010B
Chromium		29.3	mg/kg		2.27	SW846-6010B
Cobalt	UX	2.27	mg/kg		2.27	SW846-6010B
Copper	X	4.19	mg/kg		2.27	SW846-6020
Iron		20000	mg/kg		18.2	SW846-6010B
Lead		3.92	mg/kg		0.909	SW846-6020
Magnesium		305	mg/kg		4.54	SW846-6010B
Manganese	*N	29.5	mg/kg		2.27	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel		5.23	mg/kg		4.54	SW846-6010B
Selenium	U	0.909	mg/kg		0.909	SW846-6020
Silver	*NUX	2.27	mg/kg		2.27	SW846-6010B
Sodium	U	90.9	mg/kg		90.9	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	B	0.921	mg/kg		0.909	SW846-6020
Vanadium	X	31.7	mg/kg		2.27	SW846-6010B
Zinc	UX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0166	pCi/g	0.01	0.0387	RL-7128
Alpha activity		4.04	pCi/g	1.47	1.52	RL-7111
Americium-241	U	-0.0075	pCi/g	0.008	0.0235	RL-7128
Beta activity		3.12	pCi/g	0.598	1.4	RL-7111
Cesium-137	U	-0.0231	pCi/g	0.0463	0.051	RL-7124
Cobalt-60	U	-0.0148	pCi/g	0.0296	0.0566	RL-7124
Neptunium-237	U	-0.0108	pCi/g	0.0073	0.0288	RL-7128
Plutonium-238	U	0.00049	pCi/g	0.0032	0.0167	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0032	0.0176	RL-7128
Technetium-99	U	-0.982	pCi/g	1.12	1.77	RL-7100
Thorium-228		0.227	pCi/g	0.0585	0.0709	RL-7128
Thorium-230	U	0.15	pCi/g	0.0553	0.231	RL-7128
Thorium-232		0.384	pCi/g	0.0708	0.168	RL-7128
Thorium-234	U	0.843	pCi/g	1.69	1.25	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.207	pCi/g	0.135	0.301	RL-7128
Uranium-234	U	0.114	pCi/g	0.0318	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0765	pCi/g	0.0264	0.124	RL-7128

005-102

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102SA045

Collected: 4/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		2820	mg/kg		18.7	SW846-6010B
Antimony	U	8.22	mg/kg		8.22	SW846-6010B
Arsenic	BU	0.935	mg/kg		0.935	SW846-6020
Barium		32.9	mg/kg		2.34	SW846-6010B
Beryllium	BU	0.468	mg/kg		0.468	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium		415	mg/kg		93.5	SW846-6010B
Chromium		2.38	mg/kg		2.34	SW846-6010B
Cobalt	X	28.5	mg/kg		2.34	SW846-6010B
Copper	UX	2.34	mg/kg		2.34	SW846-6020
Iron		1380	mg/kg		18.7	SW846-6010B
Lead		3.78	mg/kg		0.935	SW846-6020
Magnesium		204	mg/kg		4.68	SW846-6010B
Manganese	*N	457	mg/kg		2.34	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	U	4.68	mg/kg		4.68	SW846-6010B
Selenium	U	0.935	mg/kg		0.935	SW846-6020
Silver	*NUX	2.34	mg/kg		2.34	SW846-6010B
Sodium	U	93.5	mg/kg		93.5	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	BU	0.935	mg/kg		0.935	SW846-6020
Vanadium	X	9.28	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0111	pCi/g	0.0084	0.0384	RL-7128
Alpha activity		2.17	pCi/g	0.973	1.29	RL-7111
Americium-241	U	-0.0087	pCi/g	0.0052	0.0223	RL-7128
Beta activity		1.42	pCi/g	0.322	1.27	RL-7111
Cesium-137	U	-0.0085	pCi/g	0.017	0.0407	RL-7124
Cobalt-60	U	-0.0032	pCi/g	0.0064	0.043	RL-7124
Neptunium-237	U	-0.0090	pCi/g	0.0038	0.0268	RL-7128
Plutonium-238	U	0.00059	pCi/g	0.0034	0.0161	RL-7128
Plutonium-239/240	U	-0.0073	pCi/g	0.0036	0.0172	RL-7128
Technetium-99	U	-1.18	pCi/g	1.11	1.77	RL-7100
Thorium-228		0.236	pCi/g	0.0562	0.0701	RL-7128
Thorium-230	U	0.0359	pCi/g	0.0398	0.23	RL-7128
Thorium-232		0.231	pCi/g	0.0522	0.166	RL-7128
Thorium-234		0.952	pCi/g	0.654	0.781	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.0438	pCi/g	0.0367	0.302	RL-7128
Uranium-234	U	0.0246	pCi/g	0.0248	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00812	pCi/g	0.0193	0.124	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102SA060

Collected: 4/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6240	mg/kg		18.5	SW846-6010B
Antimony	U	9.79	mg/kg		9.79	SW846-6010B
Arsenic	U	0.923	mg/kg		0.923	SW846-6020
Barium		65.1	mg/kg		2.31	SW846-6010B
Beryllium	BU	0.462	mg/kg		0.462	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium		922	mg/kg		92.3	SW846-6010B
Chromium		25.6	mg/kg		2.31	SW846-6010B
Cobalt	X	5.68	mg/kg		2.31	SW846-6010B
Copper	X	3.49	mg/kg		2.31	SW846-6020
Iron		7530	mg/kg		18.5	SW846-6010B
Lead		4.12	mg/kg		0.923	SW846-6020
Magnesium		729	mg/kg		4.62	SW846-6010B
Manganese	*N	233	mg/kg		2.31	SW846-6010B
Mercury	B	0.036	mg/kg		0.017	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel		7.46	mg/kg		4.62	SW846-6010B
Selenium	U	0.923	mg/kg		0.923	SW846-6020
Silver	*NUX	2.31	mg/kg		2.31	SW846-6010B
Sodium	U	92.3	mg/kg		92.3	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	BU	0.923	mg/kg		0.923	SW846-6020
Vanadium	X	18.4	mg/kg		2.31	SW846-6010B
Zinc	X	28.8	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0009	pCi/g	0.0018	0.0401	RL-7128
Alpha activity		6.58	pCi/g	2.11	1.84	RL-7111
Americium-241	U	-0.0053	pCi/g	0.0102	0.0228	RL-7128
Beta activity		3.63	pCi/g	0.676	1.49	RL-7111
Cesium-137	U	0.0128	pCi/g	0.0255	0.0821	RL-7124
Cobalt-60	U	0.00859	pCi/g	0.0172	0.076	RL-7124
Neptunium-237	U	-0.0051	pCi/g	0.0039	0.0337	RL-7128
Plutonium-238	U	-0.0011	pCi/g	0	0.0182	RL-7128
Plutonium-239/240	U	-0.0047	pCi/g	0	0.019	RL-7128
Technetium-99	U	-1.12	pCi/g	1.12	1.77	RL-7100
Thorium-228		0.383	pCi/g	0.0817	0.075	RL-7128
Thorium-230	U	0.226	pCi/g	0.0711	0.232	RL-7128
Thorium-232		0.388	pCi/g	0.0803	0.17	RL-7128
Thorium-234	U	0.633	pCi/g	1.27	1.25	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.235	pCi/g	0.474	0.306	RL-7128
Uranium-234	U	0.123	pCi/g	0.0385	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.113	pCi/g	0.0354	0.126	RL-7128

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005-102

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005102WA060

Collected: 4/23/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5.51	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic		0.00182	mg/L		0.001	SW846-6020
Barium	N	0.145	mg/L		0.005	SW846-6020
Beryllium	UX	0.001	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		31.9	mg/L		1	SW846-6010B
Chromium	NU	0.01	mg/L		0.01	SW846-6020
Cobalt	NX	0.00548	mg/L		0.001	SW846-6020
Copper	NUX	0.02	mg/L		0.02	SW846-6020
Iron		37.9	mg/L		0.05	SW846-6010B
Lead		0.00164	mg/L		0.0013	SW846-6020
Magnesium	N	12.9	mg/L		0.025	SW846-6010B
Manganese	X	0.295	mg/L		0.005	SW846-6020
Mercury	UX	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum		0.0386	mg/L		0.001	SW846-6020
Nickel	N	0.0311	mg/L		0.005	SW846-6020
Selenium		0.00564	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		38.9	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	BU	0.001	mg/L		0.001	SW846-6020
Vanadium	NU	0.02	mg/L		0.02	SW846-6020
Zinc	JNX	0.064	mg/L		0.02	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00107	mg/L		0.001	SW846-6020
Barium, Dissolved		0.136	mg/L		0.005	SW846-6020
Beryllium, Dissolved	UX	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		31.3	mg/L		1	SW846-6010B
Chromium, Dissolved	NUX	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.00541	mg/L		0.001	SW846-6020
Copper, Dissolved	NUX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		29.4	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.8	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.322	mg/L		0.005	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0308	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0336	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00556	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		38.7	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium	NUX	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	JNX	0.0556	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

PPCB						
PCB-1016	U	0.1	ug/L	0.1	SW846-8082	
PCB-1221	U	0.1	ug/L	0.1	SW846-8082	
PCB-1232	U	0.1	ug/L	0.1	SW846-8082	
PCB-1242	U	0.1	ug/L	0.1	SW846-8082	
PCB-1248	U	0.1	ug/L	0.1	SW846-8082	
PCB-1254	U	0.1	ug/L	0.1	SW846-8082	
PCB-1260	U	0.1	ug/L	0.1	SW846-8082	
PCB-1268	U	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	-0.0017	pCi/L	0	0.0405	RL-7128
Activity of U-235	U	0.0152	pCi/L	0.0239	0.0631	RL-7128
Alpha activity	MX	3.51	pCi/L	0.643	2.61	SW846-9310
Americium-241	U	0.00076	pCi/L	0.0122	0.0681	RL-7128
Beta activity		49.4	pCi/L	2.07	2.7	SW846-9310
Cesium-137	U	-0.24	pCi/L	0.48	0.722	RL-7124
Neptunium-237	U	0.0241	pCi/L	0.0306	0.0702	RL-7128
Plutonium-238	U	0.0104	pCi/L	0.0127	0.0376	RL-7128
Plutonium-239/240	U	0.00959	pCi/L	0.0201	0.0383	RL-7128
Technetium-99		78.4	pCi/L	1.16	0.657	RL-7100
Thorium-228		0.142	pCi/L	0.0671	0.139	RL-7128
Thorium-230	U	0.116	pCi/L	0.0694	0.176	RL-7128
Thorium-232	U	0.00253	pCi/L	0.0157	0.101	RL-7128
Thorium-234	U	-12.3	pCi/L	24.5	19	RL-7124
Uranium	U	0.287	pCi/L	0.144	0.454	RL-7128
Uranium-234	U	0.102	pCi/L	0.0473	0.353	RL-7128
Uranium-234	U	0.00552	pCi/L	0.0487	0.365	RL-7128
Uranium-238		0.187	pCi/L	0.0517	0.0609	RL-7128
Uranium-238	U	0.0252	pCi/L	0.0349	0.0782	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA010

Collected: 4/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7820	mg/kg		18.4	SW846-6010B
Antimony	U	9.91	mg/kg		9.91	SW846-6010B
Arsenic		2.55	mg/kg		0.918	SW846-6020
Barium	X	101	mg/kg		2.3	SW846-6010B
Beryllium	BUX	0.459	mg/kg		0.459	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium	X	1080	mg/kg		91.8	SW846-6010B
Chromium	X	11.9	mg/kg		2.3	SW846-6010B
Cobalt	X	3.99	mg/kg		2.3	SW846-6010B
Copper		7.89	mg/kg		2.3	SW846-6020
Iron	*X	10400	mg/kg		18.4	SW846-6010B
Lead		6.55	mg/kg		0.918	SW846-6020
Magnesium	X	1180	mg/kg		4.59	SW846-6010B
Manganese	X	314	mg/kg		2.3	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel	X	12.4	mg/kg		4.59	SW846-6010B
Selenium	U	0.918	mg/kg		0.918	SW846-6020
Silver	*NUX	2.3	mg/kg		2.3	SW846-6010B
Sodium	X	179	mg/kg		91.8	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	U	0.918	mg/kg		0.918	SW846-6020
Vanadium	X	15.6	mg/kg		2.3	SW846-6010B
Zinc	X	25.2	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0138	pCi/g	0.013	0.039	RL-7128
Alpha activity		4.67	pCi/g	1.6	1.54	RL-7111
Americium-241	U	-0.0074	pCi/g	0.0044	0.0216	RL-7128
Beta activity		3.38	pCi/g	0.651	1.55	RL-7111
Cesium-137	U	-0.0147	pCi/g	0.0293	0.0402	RL-7124
Cobalt-60	U	-0.025	pCi/g	0.05	0.042	RL-7124
Neptunium-237	U	-0.0008	pCi/g	0.0086	0.0416	RL-7128
Plutonium-238	U	-7E-05	pCi/g	0.0034	0.0175	RL-7128
Plutonium-239/240	U	-1E-04	pCi/g	0.0058	0.0178	RL-7128
Technetium-99	U	-1.24	pCi/g	1.11	1.76	RL-7100
Thorium-228		0.291	pCi/g	0.0572	0.0799	RL-7128
Thorium-230	U	0.196	pCi/g	0.0523	0.238	RL-7128
Thorium-232		0.299	pCi/g	0.0556	0.167	RL-7128
Thorium-234	U	1.68	pCi/g	3.37	0.851	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.062	pCi/g	0.0626	0.303	RL-7128
Uranium-234	U	0.0292	pCi/g	0.026	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0191	pCi/g	0.0231	0.125	RL-7128

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005-103

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA015

Collected: 4/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7980	mg/kg		17.3	SW846-6010B
Antimony	U	7.87	mg/kg		7.87	SW846-6010B
Arsenic		1.04	mg/kg		0.864	SW846-6020
Barium	X	64.5	mg/kg		2.16	SW846-6010B
Beryllium	BUX	0.432	mg/kg		0.432	SW846-6010B
Cadmium	U	1.73	mg/kg		1.73	SW846-6010B
Calcium	X	985	mg/kg		86.4	SW846-6010B
Chromium	X	11.3	mg/kg		2.16	SW846-6010B
Cobalt	X	3.03	mg/kg		2.16	SW846-6010B
Copper		5.04	mg/kg		2.16	SW846-6020
Iron	*X	8100	mg/kg		17.3	SW846-6010B
Lead		5.59	mg/kg		0.864	SW846-6020
Magnesium	X	947	mg/kg		4.32	SW846-6010B
Manganese	X	184	mg/kg		2.16	SW846-6010B
Mercury	BU	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.16	mg/kg		2.16	SW846-6010B
Nickel	X	7.25	mg/kg		4.32	SW846-6010B
Selenium	U	0.864	mg/kg		0.864	SW846-6020
Silver	*NUX	2.16	mg/kg		2.16	SW846-6010B
Sodium	X	183	mg/kg		86.4	SW846-6010B
Thallium	U	1.73	mg/kg		1.73	SW846-6020
Uranium	U	0.864	mg/kg		0.864	SW846-6020
Vanadium	X	11.3	mg/kg		2.16	SW846-6010B
Zinc	UX	17.3	mg/kg		17.3	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0118	pCi/g	0.0097	0.0384	RL-7128
Alpha activity		4.93	pCi/g	1.64	1.5	RL-7111
Americium-241	U	-0.0074	pCi/g	0.0043	0.0221	RL-7128
Beta activity		2.53	pCi/g	0.524	1.53	RL-7111
Cesium-137	U	-0.0251	pCi/g	0.0502	0.0457	RL-7124
Cobalt-60	U	-0.01	pCi/g	0.0199	0.0471	RL-7124
Neptunium-237	U	-0.0084	pCi/g	0.005	0.0425	RL-7128
Plutonium-238	U	0.00172	pCi/g	0.0049	0.0181	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.004	0.0182	RL-7128
Technetium-99	U	-0.807	pCi/g	1.12	1.76	RL-7100
Thorium-228	T	0.302	pCi/g	0.0864	0.0918	RL-7128
Thorium-230	T	0.28	pCi/g	0.0851	0.249	RL-7128
Thorium-232	T	0.278	pCi/g	0.0789	0.176	RL-7128
Thorium-234	U	1.68	pCi/g	3.36	0.872	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.158	pCi/g	0.138	0.303	RL-7128
Uranium-234	U	0.0919	pCi/g	0.0333	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0545	pCi/g	0.0282	0.125	RL-7128

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005-103

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA030

Collected: 4/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	9000	mg/kg		19.5	SW846-6010B
Antimony	U	9.39	mg/kg		9.39	SW846-6010B
Arsenic		3.48	mg/kg		0.974	SW846-6020
Barium	X	15.8	mg/kg		2.44	SW846-6010B
Beryllium	BUX	0.487	mg/kg		0.487	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium	X	586	mg/kg		97.4	SW846-6010B
Chromium	X	15.1	mg/kg		2.44	SW846-6010B
Cobalt	UX	2.44	mg/kg		2.44	SW846-6010B
Copper		6.7	mg/kg		2.44	SW846-6020
Iron	*X	21800	mg/kg		19.5	SW846-6010B
Lead		6.41	mg/kg		0.974	SW846-6020
Magnesium	X	318	mg/kg		4.87	SW846-6010B
Manganese	X	23.1	mg/kg		2.44	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel	X	7.27	mg/kg		4.87	SW846-6010B
Selenium	U	0.974	mg/kg		0.974	SW846-6020
Silver	*NUX	2.44	mg/kg		2.44	SW846-6010B
Sodium	UX	97.4	mg/kg		97.4	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium		1.07	mg/kg		0.974	SW846-6020
Vanadium	X	34.3	mg/kg		2.44	SW846-6010B
Zinc	UX	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0135	pCi/g	0.0102	0.0388	RL-7128
Alpha activity		2.46	pCi/g	1.07	1.41	RL-7111
Americium-241	U	-0.0119	pCi/g	0.0028	0.0242	RL-7128
Beta activity		2.09	pCi/g	0.451	1.49	RL-7111
Cesium-137	U	-0.0064	pCi/g	0.0128	0.0394	RL-7124
Cobalt-60	U	0.00083	pCi/g	0.0017	0.0423	RL-7124
Neptunium-237	U	-0.0111	pCi/g	0.0084	0.0428	RL-7128
Plutonium-238	U	0.00318	pCi/g	0.0057	0.0185	RL-7128
Plutonium-239/240	U	-0.0017	pCi/g	0.0033	0.0187	RL-7128
Technetium-99	U	-1.61	pCi/g	1.1	1.76	RL-7100
Thorium-228		0.262	pCi/g	0.0531	0.0795	RL-7128
Thorium-230	U	0.176	pCi/g	0.0495	0.238	RL-7128
Thorium-232		0.358	pCi/g	0.0593	0.166	RL-7128
Thorium-234	U	0.992	pCi/g	1.98	0.904	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.336	pCi/g	0.266	0.303	RL-7128
Uranium-234		0.155	pCi/g	0.0395	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.168	pCi/g	0.0385	0.125	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA030-2

Collected: 4/18/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7200	mg/kg		19.7	SW846-6010B
Antimony	U	9.38	mg/kg		9.38	SW846-6010B
Arsenic		4.21	mg/kg		0.987	SW846-6020
Barium	X	14	mg/kg		2.47	SW846-6010B
Beryllium	BUX	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.97	mg/kg		1.97	SW846-6010B
Calcium	X	765	mg/kg		98.7	SW846-6010B
Chromium	X	14.1	mg/kg		2.47	SW846-6010B
Cobalt	UX	2.47	mg/kg		2.47	SW846-6010B
Copper		5.16	mg/kg		2.47	SW846-6020
Iron	*X	18500	mg/kg		19.7	SW846-6010B
Lead		4.47	mg/kg		0.987	SW846-6020
Magnesium	X	313	mg/kg		4.94	SW846-6010B
Manganese	X	39.6	mg/kg		2.47	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel	UX	4.94	mg/kg		4.94	SW846-6010B
Selenium	U	0.987	mg/kg		0.987	SW846-6020
Silver	*NUX	2.47	mg/kg		2.47	SW846-6010B
Sodium	UX	98.7	mg/kg		98.7	SW846-6010B
Thallium	U	1.97	mg/kg		1.97	SW846-6020
Uranium		1.05	mg/kg		0.987	SW846-6020
Vanadium	X	23	mg/kg		2.47	SW846-6010B
Zinc	UX	19.7	mg/kg		19.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0143	pCi/g	0.0117	0.0382	RL-7128
Alpha activity		5.78	pCi/g	1.78	1.48	RL-7111
Americium-241	U	-0.0103	pCi/g	0.0005	0.0216	RL-7128
Beta activity		2.79	pCi/g	0.563	1.52	RL-7111
Cesium-137	U	-0.0289	pCi/g	0.0579	0.0416	RL-7124
Cobalt-60	U	0.0119	pCi/g	0.0238	0.0372	RL-7124
Neptunium-237	U	-0.0031	pCi/g	0.0056	0.0447	RL-7128
Plutonium-238	U	-0.0003	pCi/g	0.003	0.0173	RL-7128
Plutonium-239/240	U	-0.0016	pCi/g	0.0034	0.0182	RL-7128
Technetium-99	U	-0.891	pCi/g	1.11	1.76	RL-7100
Thorium-228		0.36	pCi/g	0.0738	0.0826	RL-7128
Thorium-230		0.331	pCi/g	0.0736	0.24	RL-7128
Thorium-232		0.494	pCi/g	0.0837	0.17	RL-7128
Thorium-234		1.36	pCi/g	0.633	0.673	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.381	pCi/g	0.322	0.301	RL-7128
Uranium-234		0.169	pCi/g	0.0379	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.198	pCi/g	0.0388	0.125	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA045

Collected: 4/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	9950	mg/kg		20	SW846-6010B
Antimony	U	8.95	mg/kg		8.95	SW846-6010B
Arsenic		1.57	mg/kg		0.998	SW846-6020
Barium	X	36.7	mg/kg		2.49	SW846-6010B
Beryllium	BUX	0.499	mg/kg		0.499	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium	X	1330	mg/kg		99.8	SW846-6010B
Chromium	X	13.5	mg/kg		2.49	SW846-6010B
Cobalt	UX	2.49	mg/kg		2.49	SW846-6010B
Copper		5.79	mg/kg		2.49	SW846-6020
Iron	*X	9190	mg/kg		20	SW846-6010B
Lead		7.17	mg/kg		0.998	SW846-6020
Magnesium	X	807	mg/kg		4.99	SW846-6010B
Manganese	X	37.3	mg/kg		2.49	SW846-6010B
Mercury	BU	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.49	mg/kg		2.49	SW846-6010B
Nickel	X	7.86	mg/kg		4.99	SW846-6010B
Selenium	U	0.998	mg/kg		0.998	SW846-6020
Silver	*NUX	2.49	mg/kg		2.49	SW846-6010B
Sodium	UX	99.8	mg/kg		99.8	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium		1.24	mg/kg		0.998	SW846-6020
Vanadium	X	8.63	mg/kg		2.49	SW846-6010B
Zinc	X	27.5	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0385	pCi/g	0.0184	0.0398	RL-7128
Alpha activity		6.72	pCi/g	2.07	1.76	RL-7111
Americium-241	U	-0.0087	pCi/g	0.0036	0.0218	RL-7128
Beta activity		4.62	pCi/g	0.821	1.62	RL-7111
Cesium-137	U	-0.0217	pCi/g	0.0434	0.0529	RL-7124
Cobalt-60	U	-0.0398	pCi/g	0.0797	0.045	RL-7124
Neptunium-237	U	-0.0134	pCi/g	0.011	0.0452	RL-7128
Plutonium-238	U	-0.0015	pCi/g	0.0005	0.018	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0	0.0178	RL-7128
Technetium-99	U	-0.232	pCi/g	1.14	1.76	RL-7100
Thorium-228		0.342	pCi/g	0.0567	0.0784	RL-7128
Thorium-230		0.377	pCi/g	0.0611	0.237	RL-7128
Thorium-232		0.405	pCi/g	0.0593	0.166	RL-7128
Thorium-234	U	1.9	pCi/g	3.8	1.06	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	0.658	pCi/g	0.336	0.304	RL-7128
Uranium-234	0.322	pCi/g	0.0499	0.139	RL-7128
Uranium-235		wt %			RL-7128
Uranium-238	0.297	pCi/g	0.0471	0.125	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SA060

Collected: 4/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7500	mg/kg		15.8	SW846-6010B
Antimony	U	9.37	mg/kg		9.37	SW846-6010B
Arsenic		1.06	mg/kg		0.789	SW846-6020
Barium	X	56.4	mg/kg		1.97	SW846-6010B
Beryllium	BUX	0.394	mg/kg		0.394	SW846-6010B
Cadmium	U	1.58	mg/kg		1.58	SW846-6010B
Calcium	X	767	mg/kg		78.9	SW846-6010B
Chromium	X	9.53	mg/kg		1.97	SW846-6010B
Cobalt	X	4.93	mg/kg		1.97	SW846-6010B
Copper		4.92	mg/kg		1.97	SW846-6020
Iron	*X	11400	mg/kg		15.8	SW846-6010B
Lead		5.6	mg/kg		0.789	SW846-6020
Magnesium	X	1020	mg/kg		3.94	SW846-6010B
Manganese	X	196	mg/kg		1.97	SW846-6010B
Mercury	BU	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	1.97	mg/kg		1.97	SW846-6010B
Nickel	X	9.35	mg/kg		3.94	SW846-6010B
Selenium	U	0.789	mg/kg		0.789	SW846-6020
Silver	*NUX	1.97	mg/kg		1.97	SW846-6010B
Sodium	UX	78.9	mg/kg		78.9	SW846-6010B
Thallium	U	1.58	mg/kg		1.58	SW846-6020
Uranium	U	0.789	mg/kg		0.789	SW846-6020
Vanadium	X	11.5	mg/kg		1.97	SW846-6010B
Zinc	X	39	mg/kg		15.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0105	pCi/g	0.0094	0.0395	RL-7128
Alpha activity		3.47	pCi/g	1.34	1.48	RL-7111
Americium-241	U	-0.0087	pCi/g	0.0036	0.0217	RL-7128
Beta activity		2.57	pCi/g	0.53	1.52	RL-7111
Cesium-137	U	-0.0121	pCi/g	0.0242	0.0417	RL-7124
Cobalt-60	U	-0.011	pCi/g	0.0221	0.0478	RL-7124
Neptunium-237	U	-0.0043	pCi/g	0.0033	0.0446	RL-7128
Plutonium-238	U	7.6E-05	pCi/g	0.0037	0.0177	RL-7128
Plutonium-239/240	U	-0.0072	pCi/g	0.0064	0.0178	RL-7128
Technetium-99	U	-0.594	pCi/g	1.12	1.76	RL-7100
Thorium-228		0.326	pCi/g	0.0579	0.0791	RL-7128
Thorium-230	U	0.132	pCi/g	0.0445	0.238	RL-7128
Thorium-232		0.37	pCi/g	0.0594	0.167	RL-7128
Thorium-234	U	1.04	pCi/g	2.08	0.895	RL-7124

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.18	pCi/g	0.17	0.305	RL-7128
Uranium-234	U	0.095	pCi/g	0.0347	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.074	pCi/g	0.0311	0.126	RL-7128

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BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

005103SD060

Collected: 4/19/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	X	7260	mg/kg		18.7	SW846-6010B
Antimony	U	9.42	mg/kg		9.42	SW846-6010B
Arsenic		1.53	mg/kg		0.933	SW846-6020
Barium	X	42.4	mg/kg		2.33	SW846-6010B
Beryllium	BUX	0.466	mg/kg		0.466	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium	X	706	mg/kg		93.3	SW846-6010B
Chromium	X	7.44	mg/kg		2.33	SW846-6010B
Cobalt	X	2.47	mg/kg		2.33	SW846-6010B
Copper		5.26	mg/kg		2.33	SW846-6020
Iron	*X	12500	mg/kg		18.7	SW846-6010B
Lead		4.14	mg/kg		0.933	SW846-6020
Magnesium	X	946	mg/kg		4.66	SW846-6010B
Manganese	X	119	mg/kg		2.33	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel	X	9.55	mg/kg		4.66	SW846-6010B
Selenium	U	0.933	mg/kg		0.933	SW846-6020
Silver	*NUX	2.33	mg/kg		2.33	SW846-6010B
Sodium	UX	93.3	mg/kg		93.3	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.933	mg/kg		0.933	SW846-6020
Vanadium	X	14.6	mg/kg		2.33	SW846-6010B
Zinc	X	37.4	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0066	pCi/g	0.0117	0.0386	RL-7128
Alpha activity		4.75	pCi/g	1.65	1.59	RL-7111
Americium-241	U	-0.0071	pCi/g	0.0062	0.0235	RL-7128
Beta activity		2.42	pCi/g	0.51	1.56	RL-7111
Cesium-137	U	0.00128	pCi/g	0.0026	0.0531	RL-7124
Cobalt-60	U	0.0231	pCi/g	0.0461	0.051	RL-7124
Neptunium-237	U	-0.0049	pCi/g	0.002	0.0459	RL-7128
Plutonium-238	U	0.0017	pCi/g	0.0049	0.0178	RL-7128
Plutonium-239/240	U	-0.0011	pCi/g	0.0045	0.019	RL-7128
Technetium-99	U	-0.781	pCi/g	1.12	1.76	RL-7100
Thorium-228		0.34	pCi/g	0.0608	0.0795	RL-7128
Thorium-230	U	0.131	pCi/g	0.0464	0.238	RL-7128
Thorium-232		0.298	pCi/g	0.0552	0.167	RL-7128
Thorium-234	U	1.18	pCi/g	2.35	0.865	RL-7124

*QUALIFIER Codes See attached List.

005-103

BGOU07-SWMU5A

Burial Ground OU SWMU 5 Angle Borings BGOU07-SWMU5ASB

Uranium	U	0.155	pCi/g	0.277	0.303	RL-7128
Uranium-234	U	0.0954	pCi/g	0.0336	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0528	pCi/g	0.0268	0.125	RL-7128

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006-101

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SA010

Collected: 2/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7150	mg/kg		19.1	SW846-6010B
Antimony	U	9.05	mg/kg		9.05	SW846-6010B
Arsenic		1.92	mg/kg		0.954	SW846-6020
Barium		83.4	mg/kg		2.39	SW846-6010B
Beryllium	U	0.477	mg/kg		0.477	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	*N	950	mg/kg		95.4	SW846-6010B
Chromium		13	mg/kg		2.39	SW846-6010B
Cobalt	X	2.86	mg/kg		2.39	SW846-6010B
Copper		6.28	mg/kg		2.39	SW846-6020
Iron		8830	mg/kg		19.1	SW846-6010B
Lead		5.81	mg/kg		0.954	SW846-6020
Magnesium		994	mg/kg		4.77	SW846-6010B
Manganese	N	150	mg/kg		2.39	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel		9.65	mg/kg		4.77	SW846-6010B
Selenium	U	0.954	mg/kg		0.954	SW846-6020
Silver	UX	2.39	mg/kg		2.39	SW846-6010B
Sodium		144	mg/kg		95.4	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	U	0.954	mg/kg		0.954	SW846-6020
Vanadium		5.1	mg/kg		2.39	SW846-6010B
Zinc	X	25.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0129	pCi/g	0.0024	0.0368	RL-7128
Alpha activity		3.45	pCi/g	0.802	0.675	RL-7111
Americium-241	U	0.00141	pCi/g	0.0048	0.0304	RL-7128
Beta activity		3.22	pCi/g	0.428	0.752	RL-7111
Cesium-137	U	-0.0158	pCi/g	0.0317	0.0398	RL-7124
Cobalt-60	U	-0.0091	pCi/g	0.0182	0.029	RL-7124
Neptunium-237	U	0.00329	pCi/g	0.0066	0.0413	RL-7128
Plutonium-238	U	-0.0027	pCi/g	0.0017	0.0189	RL-7128
Plutonium-239/240	U	-0.0029	pCi/g	0	0.0179	RL-7128
Technetium-99	U	-0.183	pCi/g	1.18	1.83	RL-7100
Thorium-228		0.233	pCi/g	0.0545	0.0956	RL-7128
Thorium-230		0.145	pCi/g	0.0501	0.112	RL-7128
Thorium-232		0.249	pCi/g	0.0544	0.0629	RL-7128
Thorium-234	U	0.66	pCi/g	1.32	1.05	RL-7124

*QUALIFIER Codes See attached List.

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006-101

BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	-0.0234	pCi/g	0.0477	0.29	RL-7128
Uranium-234	U	-0.0149	pCi/g	0.0221	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00441	pCi/g	0.0231	0.125	RL-7128

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006-101

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SA015

Collected: 2/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9610	mg/kg		18.6	SW846-6010B
Antimony	U	9.18	mg/kg		9.18	SW846-6010B
Arsenic		1.48	mg/kg		0.93	SW846-6020
Barium		58.7	mg/kg		2.33	SW846-6010B
Beryllium	U	0.465	mg/kg		0.465	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium	*N	891	mg/kg		93	SW846-6010B
Chromium		16.8	mg/kg		2.33	SW846-6010B
Cobalt	X	3.45	mg/kg		2.33	SW846-6010B
Copper		5.61	mg/kg		2.33	SW846-6020
Iron		8630	mg/kg		18.6	SW846-6010B
Lead		6.79	mg/kg		0.93	SW846-6020
Magnesium		931	mg/kg		4.65	SW846-6010B
Manganese	N	126	mg/kg		2.33	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel		8.12	mg/kg		4.65	SW846-6010B
Selenium	U	0.93	mg/kg		0.93	SW846-6020
Silver	UX	2.33	mg/kg		2.33	SW846-6010B
Sodium		94.1	mg/kg		93	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	U	0.93	mg/kg		0.93	SW846-6020
Vanadium		5.54	mg/kg		2.33	SW846-6010B
Zinc	X	24.8	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0042	pCi/g	0.0087	0.0356	RL-7128
Alpha activity		4.21	pCi/g	0.798	0.683	RL-7111
Americium-241	U	0.00144	pCi/g	0.0049	0.0301	RL-7128
Beta activity		21.3	pCi/g	1.35	0.757	RL-7111
Cesium-137	U	-0.0064	pCi/g	0.0129	0.0402	RL-7124
Cobalt-60	U	0.00554	pCi/g	0.0111	0.0406	RL-7124
Neptunium-237	U	0.005	pCi/g	0.0067	0.0401	RL-7128
Plutonium-238	U	1.0E-05	pCi/g	0.0038	0.0186	RL-7128
Plutonium-239/240	U	-0.0029	pCi/g	0	0.0189	RL-7128
Technetium-99		13.2	pCi/g	1.42	1.83	RL-7100
Thorium-228		0.338	pCi/g	0.0535	0.092	RL-7128
Thorium-230		0.333	pCi/g	0.0568	0.106	RL-7128
Thorium-232		0.373	pCi/g	0.0541	0.0549	RL-7128
Thorium-234	U	0.15	pCi/g	0.301	1.05	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.107	pCi/g	0.0994	0.288	RL-7128
Uranium-234	U	0.0491	pCi/g	0.0288	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0625	pCi/g	0.0275	0.124	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SA030

Collected: 2/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5400	mg/kg		18.2	SW846-6010B
Antimony	U	9.53	mg/kg		9.53	SW846-6010B
Arsenic		1.78	mg/kg		0.909	SW846-6020
Barium		14.6	mg/kg		2.27	SW846-6010B
Beryllium	U	0.454	mg/kg		0.454	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium	*N	455	mg/kg		90.9	SW846-6010B
Chromium		5.54	mg/kg		2.27	SW846-6010B
Cobalt	UX	2.27	mg/kg		2.27	SW846-6010B
Copper		3.47	mg/kg		2.27	SW846-6020
Iron		9450	mg/kg		18.2	SW846-6010B
Lead		4.99	mg/kg		0.909	SW846-6020
Magnesium		245	mg/kg		4.54	SW846-6010B
Manganese	N	46.7	mg/kg		2.27	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.27	mg/kg		2.27	SW846-6010B
Nickel	U	4.54	mg/kg		4.54	SW846-6010B
Selenium	U	0.909	mg/kg		0.909	SW846-6020
Silver	UX	2.27	mg/kg		2.27	SW846-6010B
Sodium	U	90.9	mg/kg		90.9	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.909	mg/kg		0.909	SW846-6020
Vanadium		8.22	mg/kg		2.27	SW846-6010B
Zinc	UX	18.2	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0011	pCi/g	0.0092	0.0362	RL-7128
Alpha activity		3.01	pCi/g	0.736	0.658	RL-7111
Americium-241	U	-0.0002	pCi/g	0.0037	0.0293	RL-7128
Beta activity		2.72	pCi/g	0.377	0.741	RL-7111
Cesium-137	U	-0.0022	pCi/g	0.0044	0.0571	RL-7124
Cobalt-60	U	0.0255	pCi/g	0.0511	0.048	RL-7124
Neptunium-237	U	-0.0016	pCi/g	0.0032	0.0412	RL-7128
Plutonium-238	U	0.00101	pCi/g	0.0041	0.0181	RL-7128
Plutonium-239/240	U	-0.0015	pCi/g	0.0029	0.0178	RL-7128
Technetium-99	U	0.991	pCi/g	1.2	1.83	RL-7100
Thorium-228		0.324	pCi/g	0.0533	0.0925	RL-7128
Thorium-230		0.212	pCi/g	0.0474	0.107	RL-7128
Thorium-232		0.379	pCi/g	0.0554	0.0562	RL-7128
Thorium-234	U	0.946	pCi/g	1.89	1.47	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.252	pCi/g	0.187	0.289	RL-7128
Uranium-234	U	0.122	pCi/g	0.0346	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.131	pCi/g	0.0339	0.124	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SA045

Collected: 2/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7740	mg/kg		19.2	SW846-6010B
Antimony	U	9.96	mg/kg		9.96	SW846-6010B
Arsenic		2.23	mg/kg		0.959	SW846-6020
Barium		52.5	mg/kg		2.4	SW846-6010B
Beryllium		0.825	mg/kg		0.479	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium	*N	1370	mg/kg		95.9	SW846-6010B
Chromium		16.6	mg/kg		2.4	SW846-6010B
Cobalt	UX	2.4	mg/kg		2.4	SW846-6010B
Copper		10.2	mg/kg		2.4	SW846-6020
Iron		16900	mg/kg		19.2	SW846-6010B
Lead		5.88	mg/kg		0.959	SW846-6020
Magnesium		1230	mg/kg		4.79	SW846-6010B
Manganese	N	59.2	mg/kg		2.4	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel		11.8	mg/kg		4.79	SW846-6010B
Selenium	U	0.959	mg/kg		0.959	SW846-6020
Silver	UX	2.4	mg/kg		2.4	SW846-6010B
Sodium	U	95.9	mg/kg		95.9	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium		1.23	mg/kg		0.959	SW846-6020
Vanadium		5.58	mg/kg		2.4	SW846-6010B
Zinc	X	46.3	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0035	pCi/g	0.0087	0.0369	RL-7128
Alpha activity		4.33	pCi/g	0.952	0.741	RL-7111
Americium-241	U	0.00338	pCi/g	0.0062	0.0301	RL-7128
Beta activity		3.49	pCi/g	0.458	0.785	RL-7111
Cesium-137	U	-0.0234	pCi/g	0.0469	0.0496	RL-7124
Cobalt-60	U	0.0153	pCi/g	0.0305	0.0495	RL-7124
Neptunium-237	U	0.00113	pCi/g	0.0023	0.0411	RL-7128
Plutonium-238	U	-0.0032	pCi/g	0.0026	0.019	RL-7128
Plutonium-239/240	U	-0.0025	pCi/g	0.0008	0.0184	RL-7128
Technetium-99	U	-0.638	pCi/g	1.16	1.83	RL-7100
Thorium-228		0.373	pCi/g	0.0564	0.0925	RL-7128
Thorium-230		0.288	pCi/g	0.0542	0.106	RL-7128
Thorium-232		0.407	pCi/g	0.0584	0.0557	RL-7128
Thorium-234	U	1.16	pCi/g	2.33	1.36	RL-7124

006-101

BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.372	pCi/g	0.313	0.29	RL-7128
Uranium-234		0.218	pCi/g	0.0434	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.158	pCi/g	0.0377	0.125	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101WA060

Collected: 2/27/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		1430	mg/L		2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.5	mg/L		0.5	SW846-6020
Barium		42.9	mg/L		0.5	SW846-6020
Beryllium		0.0929	mg/L		0.001	SW846-6020
Cadmium		0.0288	mg/L		0.0006	SW846-6020
Calcium		339	mg/L		10	SW846-6010B
Chromium	BJNU	5	mg/L		5	SW846-6020
Cobalt		6.68	mg/L		0.5	SW846-6020
Copper	U	10	mg/L		10	SW846-6020
Iron		2110	mg/L		0.5	SW846-6010B
Lead		2.02	mg/L		0.13	SW846-6020
Magnesium		192	mg/L		0.25	SW846-6010B
Manganese	X	170	mg/L		2.5	SW846-6020
Mercury		0.00279	mg/L		0.0005	SW846-7470A
Molybdenum		0.0231	mg/L		0.001	SW846-6020
Nickel	U	2.5	mg/L		2.5	SW846-6020
Selenium	U	0.5	mg/L		0.5	SW846-6020
Silver	B	0.00223	mg/L		0.001	SW846-6020
Sodium		99.6	mg/L		5	SW846-6010B
Thallium		0.0174	mg/L		0.002	SW846-6020
Uranium		0.315	mg/L		0.1	SW846-6020
Vanadium	U	10	mg/L		10	SW846-6020
Zinc		10.8	mg/L		10	SW846-6020
PPCB						
PCB-1016	UX	0.25	ug/L		0.25	SW846-8082
PCB-1221	UX	0.25	ug/L		0.25	SW846-8082
PCB-1232	UX	0.25	ug/L		0.25	SW846-8082
PCB-1242	UX	0.25	ug/L		0.25	SW846-8082
PCB-1248	UX	0.25	ug/L		0.25	SW846-8082
PCB-1254	UX	0.25	ug/L		0.25	SW846-8082
PCB-1260	UX	0.25	ug/L		0.25	SW846-8082
PCB-1268	UX	0.25	ug/L		0.25	SW846-8082
Polychlorinated biphenyl	UX	0.25	ug/L		0.25	SW846-8082
RADS						
Activity of U-235		1.07	pCi/L	0.241	0.169	RL-7128
Alpha activity	X	293	pCi/L	18.8	12	SW846-9310
Americium-241	U	0.0721	pCi/L	0.072	0.396	RL-7128
Beta activity	X	794	pCi/L	18	10.9	SW846-9310
Bismuth-214		279	pCi/L	8.49	4.89	RL-7124
Cesium-137	U	0.285	pCi/L	0.569	2.63	RL-7124
Lead-214		282	pCi/L	6.32	5.18	RL-7124
Neptunium-237	U	0.0487	pCi/L	0.0752	0.22	RL-7128
Plutonium-238	U	0.0463	pCi/L	0.0444	0.167	RL-7128
Plutonium-239/240	U	0.0592	pCi/L	0.0487	0.179	RL-7128
Technetium-99	DM	310	pCi/L	2.6	0.817	RL-7100
Thorium-228		0.906	pCi/L	0.238	0.56	RL-7128
Thorium-230	U	0.25	pCi/L	0.15	0.411	RL-7128
Thorium-232	U	0.239	pCi/L	0.132	0.266	RL-7128

*QUALIFIER Codes See attached List.

006-101

BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Thorium-234	U	2.8	pCi/L	5.6	38.6	RL-7124
Uranium		46.8	pCi/L	10.9	2.21	RL-7128
Uranium-234		24	pCi/L	1.03	1.7	RL-7128
Uranium-238		21.8	pCi/L	0.973	0.339	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SA060

Collected: 2/28/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2900	mg/kg		18.7	SW846-6010B
Antimony	U	8.8	mg/kg		8.8	SW846-6010B
Arsenic	U	0.935	mg/kg		0.935	SW846-6020
Barium		44.5	mg/kg		2.34	SW846-6010B
Beryllium	U	0.467	mg/kg		0.467	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium	*N	192	mg/kg		93.5	SW846-6010B
Chromium		5.32	mg/kg		2.34	SW846-6010B
Cobalt	X	3.08	mg/kg		2.34	SW846-6010B
Copper	U	2.34	mg/kg		2.34	SW846-6020
Iron		5340	mg/kg		18.7	SW846-6010B
Lead		2.27	mg/kg		0.935	SW846-6020
Magnesium		219	mg/kg		4.67	SW846-6010B
Manganese	N	315	mg/kg		2.34	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel		7.38	mg/kg		4.67	SW846-6010B
Selenium	U	0.935	mg/kg		0.935	SW846-6020
Silver	UX	2.34	mg/kg		2.34	SW846-6010B
Sodium	U	93.5	mg/kg		93.5	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.935	mg/kg		0.935	SW846-6020
Vanadium	U	2.34	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0107	pCi/g	0.0068	0.0388	RL-7128
Alpha activity		1.31	pCi/g	0.443	0.632	RL-7111
Americium-241	U	0.00126	pCi/g	0.0046	0.0296	RL-7128
Beta activity		1.27	pCi/g	0.21	0.713	RL-7111
Cesium-137	U	-0.0222	pCi/g	0.0444	0.0273	RL-7124
Cobalt-60	U	0.00373	pCi/g	0.0075	0.0281	RL-7124
Neptunium-237	U	0.0008	pCi/g	0.0016	0.0415	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0	0.0192	RL-7128
Plutonium-239/240	U	-0.0021	pCi/g	0.0016	0.0204	RL-7128
Technetium-99	U	-0.496	pCi/g	1.16	1.83	RL-7100
Thorium-228	U	0.0613	pCi/g	0.0272	0.0921	RL-7128
Thorium-230	U	0.0321	pCi/g	0.03	0.107	RL-7128
Thorium-232		0.0853	pCi/g	0.0283	0.0551	RL-7128
Thorium-234	U	-0.257	pCi/g	0.513	0.87	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	-0.0705	pCi/g	0.145	0.294	RL-7128
Uranium-234	U	-0.0436	pCi/g	0.0211	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0162	pCi/g	0.0213	0.126	RL-7128

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006-101

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006101SD030

Collected: 2/27/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		4200	mg/kg		19.1	SW846-6010B
Antimony	U	8.35	mg/kg		8.35	SW846-6010B
Arsenic		2.38	mg/kg		0.956	SW846-6020
Barium		12.7	mg/kg		2.39	SW846-6010B
Beryllium	U	0.478	mg/kg		0.478	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	*N	446	mg/kg		95.6	SW846-6010B
Chromium		6.37	mg/kg		2.39	SW846-6010B
Cobalt	X	3.06	mg/kg		2.39	SW846-6010B
Copper		3.52	mg/kg		2.39	SW846-6020
Iron		11700	mg/kg		19.1	SW846-6010B
Lead		5.43	mg/kg		0.956	SW846-6020
Magnesium		218	mg/kg		4.78	SW846-6010B
Manganese	N	103	mg/kg		2.39	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel	U	4.78	mg/kg		4.78	SW846-6010B
Selenium	U	0.956	mg/kg		0.956	SW846-6020
Silver	UX	2.39	mg/kg		2.39	SW846-6010B
Sodium	U	95.6	mg/kg		95.6	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	U	0.956	mg/kg		0.956	SW846-6020
Vanadium		11.4	mg/kg		2.39	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0097	pCi/g	0.0082	0.0376	RL-7128
Alpha activity		4.22	pCi/g	0.899	0.676	RL-7111
Americium-241	U	-0.002	pCi/g	0	0.0311	RL-7128
Beta activity		3.55	pCi/g	0.458	0.753	RL-7111
Cesium-137	U	0.0152	pCi/g	0.0303	0.077	RL-7124
Cobalt-60	U	-0.0121	pCi/g	0.0243	0.0609	RL-7124
Neptunium-237	U	0.00813	pCi/g	0.0103	0.044	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0035	0.0189	RL-7128
Plutonium-239/240	U	-0.0025	pCi/g	0.0008	0.019	RL-7128
Technetium-99	U	0.577	pCi/g	1.19	1.83	RL-7100
Thorium-228		0.26	pCi/g	0.056	0.0944	RL-7128
Thorium-230		0.21	pCi/g	0.0571	0.11	RL-7128
Thorium-232		0.335	pCi/g	0.0609	0.0606	RL-7128
Thorium-234	U	2.23	pCi/g	4.46	1.55	RL-7124

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BGOU07-SWMU6A	Burial Ground OU SWMU 6 Angle Borings				BGOU07-SWMU6ASB1
Uranium	U	0.162	pCi/g	0.304	0.292 RL-7128
Uranium-234	U	0.0782	pCi/g	0.0328	0.129 RL-7128
Uranium-235			wt %		RL-7128
Uranium-238	U	0.0934	pCi/g	0.0326	0.125 RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SA010

Collected: 2/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8540	mg/kg		19.2	SW846-6010B
Antimony	U	8.85	mg/kg		8.85	SW846-6010B
Arsenic		5.94	mg/kg		0.958	SW846-6020
Barium		84.2	mg/kg		2.4	SW846-6010B
Beryllium	U	0.479	mg/kg		0.479	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium	*N	1370	mg/kg		95.8	SW846-6010B
Chromium		19	mg/kg		2.4	SW846-6010B
Cobalt	X	4.23	mg/kg		2.4	SW846-6010B
Copper		13	mg/kg		2.4	SW846-6020
Iron		14500	mg/kg		19.2	SW846-6010B
Lead		8.8	mg/kg		0.958	SW846-6020
Magnesium		1400	mg/kg		4.79	SW846-6010B
Manganese	N	216	mg/kg		2.4	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel		12.9	mg/kg		4.79	SW846-6010B
Selenium	U	0.958	mg/kg		0.958	SW846-6020
Silver	UX	2.4	mg/kg		2.4	SW846-6010B
Sodium	U	95.8	mg/kg		95.8	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium		1.02	mg/kg		0.958	SW846-6020
Vanadium		16	mg/kg		2.4	SW846-6010B
Zinc	X	32.1	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0127	pCi/g	0.0029	0.0358	RL-7128
Alpha activity		3.49	pCi/g	0.885	0.849	RL-7111
Americium-241	U	-0.0021	pCi/g	0.0003	0.0296	RL-7128
Beta activity		3.57	pCi/g	0.471	0.82	RL-7111
Cesium-137	U	-0.024	pCi/g	0.0481	0.0415	RL-7124
Cobalt-60	U	0.0129	pCi/g	0.0258	0.0451	RL-7124
Neptunium-237	U	-0.0025	pCi/g	0.005	0.0409	RL-7128
Plutonium-238	U	-0.0031	pCi/g	0.0024	0.0184	RL-7128
Plutonium-239/240	U	-0.0026	pCi/g	0.0007	0.0184	RL-7128
Technetium-99	U	-0.285	pCi/g	1.17	1.83	RL-7100
Thorium-228		0.368	pCi/g	0.0611	0.0933	RL-7128
Thorium-230		0.257	pCi/g	0.0573	0.108	RL-7128
Thorium-232		0.373	pCi/g	0.0602	0.0568	RL-7128
Thorium-234	U	1.25	pCi/g	2.51	1.15	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.165	pCi/g	0.333	0.289	RL-7128
Uranium-234	U	0.0822	pCi/g	0.0307	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0957	pCi/g	0.031	0.124	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SA015

Collected: 2/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9550	mg/kg		19.8	SW846-6010B
Antimony	U	9.72	mg/kg		9.72	SW846-6010B
Arsenic		1.53	mg/kg		0.989	SW846-6020
Barium		64.4	mg/kg		2.47	SW846-6010B
Beryllium	U	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium	*N	1090	mg/kg		98.9	SW846-6010B
Chromium		13.1	mg/kg		2.47	SW846-6010B
Cobalt	X	4.68	mg/kg		2.47	SW846-6010B
Copper		4.81	mg/kg		2.47	SW846-6020
Iron		8100	mg/kg		19.8	SW846-6010B
Lead		7.12	mg/kg		0.989	SW846-6020
Magnesium		1050	mg/kg		4.94	SW846-6010B
Manganese	N	277	mg/kg		2.47	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel		7.56	mg/kg		4.94	SW846-6010B
Selenium	U	0.989	mg/kg		0.989	SW846-6020
Silver	UX	2.47	mg/kg		2.47	SW846-6010B
Sodium	U	98.9	mg/kg		98.9	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	U	0.989	mg/kg		0.989	SW846-6020
Vanadium		5.94	mg/kg		2.47	SW846-6010B
Zinc	UX	19.8	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0041	pCi/g	0.0082	0.0359	RL-7128
Alpha activity		5.05	pCi/g	1.03	0.723	RL-7111
Americium-241	U	-0.0001	pCi/g	0.0038	0.0295	RL-7128
Beta activity		2.9	pCi/g	0.401	0.777	RL-7111
Cesium-137	U	0.00109	pCi/g	0.0022	0.0541	RL-7124
Cobalt-60	U	0.00562	pCi/g	0.0113	0.0481	RL-7124
Neptunium-237	U	-0.001	pCi/g	0.0019	0.0393	RL-7128
Plutonium-238	U	0.0011	pCi/g	0.0042	0.0185	RL-7128
Plutonium-239/240	U	8.5E-05	pCi/g	0.0042	0.0184	RL-7128
Technetium-99	U	-0.251	pCi/g	1.15	1.83	RL-7100
Thorium-228		0.319	pCi/g	0.0496	0.0918	RL-7128
Thorium-230		0.24	pCi/g	0.048	0.106	RL-7128
Thorium-232		0.275	pCi/g	0.0462	0.0552	RL-7128
Thorium-234	U	0.965	pCi/g	1.93	1.33	RL-7124

*QUALIFIER Codes See attached List.

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006-102

BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.0298	pCi/g	0.0262	0.289	RL-7128
Uranium-234	U	0.0176	pCi/g	0.0266	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0163	pCi/g	0.0234	0.125	RL-7128

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006-102

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SA030

Collected: 2/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8630	mg/kg		19.3	SW846-6010B
Antimony	U	9.71	mg/kg		9.71	SW846-6010B
Arsenic		2.76	mg/kg		0.963	SW846-6020
Barium		18.4	mg/kg		2.41	SW846-6010B
Beryllium	U	0.482	mg/kg		0.482	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium	*N	593	mg/kg		96.3	SW846-6010B
Chromium		10.1	mg/kg		2.41	SW846-6010B
Cobalt	UX	2.41	mg/kg		2.41	SW846-6010B
Copper		4.87	mg/kg		2.41	SW846-6020
Iron		14100	mg/kg		19.3	SW846-6010B
Lead		6.41	mg/kg		0.963	SW846-6020
Magnesium		336	mg/kg		4.82	SW846-6010B
Manganese	N	57.1	mg/kg		2.41	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.41	mg/kg		2.41	SW846-6010B
Nickel	U	4.82	mg/kg		4.82	SW846-6010B
Selenium	U	0.963	mg/kg		0.963	SW846-6020
Silver	UX	2.41	mg/kg		2.41	SW846-6010B
Sodium		103	mg/kg		96.3	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium		0.986	mg/kg		0.963	SW846-6020
Vanadium		13.5	mg/kg		2.41	SW846-6010B
Zinc	UX	19.3	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	100	ug/kg		100	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00475	pCi/g	0.0126	0.0366	RL-7128
Alpha activity		2.76	pCi/g	0.726	0.71	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0018	0.0299	RL-7128
Beta activity		2.31	pCi/g	0.339	0.772	RL-7111
Cesium-137	U	-0.0015	pCi/g	0.003	0.0486	RL-7124
Cobalt-60	U	-0.0156	pCi/g	0.0313	0.0334	RL-7124
Neptunium-237	U	0.00259	pCi/g	0.0052	0.0417	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0	0.019	RL-7128
Plutonium-239/240	U	-0.0022	pCi/g	0.0015	0.0186	RL-7128
Technetium-99	U	0.835	pCi/g	1.19	1.83	RL-7100
Thorium-228		0.412	pCi/g	0.0594	0.0921	RL-7128
Thorium-230		0.335	pCi/g	0.0575	0.106	RL-7128
Thorium-232		0.546	pCi/g	0.0665	0.0557	RL-7128
Thorium-234	U	2.07	pCi/g	4.14	1.27	RL-7124

*QUALIFIER Codes See attached List.

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006-102

BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	0.48	pCi/g	0.333	0.29	RL-7128
Uranium-234		0.255	pCi/g	0.0467	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.221	pCi/g	0.0428	0.125	RL-7128

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006-102

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SA045

Collected: 2/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		1890	mg/kg		18	SW846-6010B
Antimony	U	8.26	mg/kg		8.26	SW846-6010B
Arsenic		1.17	mg/kg		0.899	SW846-6020
Barium		7.61	mg/kg		2.25	SW846-6010B
Beryllium	U	0.45	mg/kg		0.45	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium	*N	143	mg/kg		89.9	SW846-6010B
Chromium		13.7	mg/kg		2.25	SW846-6010B
Cobalt	UX	2.25	mg/kg		2.25	SW846-6010B
Copper		2.46	mg/kg		2.25	SW846-6020
Iron		4850	mg/kg		18	SW846-6010B
Lead		2.34	mg/kg		0.899	SW846-6020
Magnesium		71.8	mg/kg		4.5	SW846-6010B
Manganese	N	35.6	mg/kg		2.25	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel	U	4.5	mg/kg		4.5	SW846-6010B
Selenium	U	0.899	mg/kg		0.899	SW846-6020
Silver	UX	2.25	mg/kg		2.25	SW846-6010B
Sodium	U	89.9	mg/kg		89.9	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	U	0.899	mg/kg		0.899	SW846-6020
Vanadium		6.58	mg/kg		2.25	SW846-6010B
Zinc	UX	18	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0151	pCi/g	0.0020	0.0368	RL-7128
Alpha activity		0.756	pCi/g	0.308	0.618	RL-7111
Americium-241	U	-0.0037	pCi/g	0.0035	0.03	RL-7128
Beta activity		0.685	pCi/g	0.125	0.68	RL-7111
Cesium-137	U	0.0107	pCi/g	0.0214	0.2	RL-7124
Cobalt-60	U	0.0515	pCi/g	0.103	0.168	RL-7124
Neptunium-237	U	0.0034	pCi/g	0.0068	0.043	RL-7128
Plutonium-238	U	0.00042	pCi/g	0.0046	0.0188	RL-7128
Plutonium-239/240	U	-0.0054	pCi/g	0.0035	0.0188	RL-7128
Technetium-99	U	-0.224	pCi/g	1.16	1.83	RL-7100
Thorium-228	U	0.0663	pCi/g	0.0297	0.0933	RL-7128
Thorium-230	U	0.0136	pCi/g	0.0293	0.108	RL-7128
Thorium-232	U	0.0511	pCi/g	0.0252	0.0573	RL-7128
Thorium-234	U	1.18	pCi/g	2.36	3.47	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	-0.0603	pCi/g	0.123	0.291	RL-7128
Uranium-234	U	-0.037	pCi/g	0.0202	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0082	pCi/g	0.0215	0.125	RL-7128

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006-102

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102WA060

Collected: 2/23/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7.14	mg/L		0.2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.01	mg/L		0.01	SW846-6020
Barium		0.555	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	U	0.0006	mg/L		0.0006	SW846-6020
Calcium		113	mg/L		1	SW846-6010B
Chromium	BJNU	0.1	mg/L		0.1	SW846-6020
Cobalt		0.0671	mg/L		0.01	SW846-6020
Copper	U	0.2	mg/L		0.2	SW846-6020
Iron		124	mg/L		0.05	SW846-6010B
Lead		0.00336	mg/L		0.0013	SW846-6020
Magnesium	X	46.1	mg/L		0.025	SW846-6010B
Manganese	X	4.35	mg/L		0.05	SW846-6020
Mercury	UW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum		0.182	mg/L		0.01	SW846-6020
Nickel		0.14	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		141	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	U	0.001	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc		0.812	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0021	mg/L		0.001	SW846-6020
Barium, Dissolved		0.433	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		109	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0395	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		61.1	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved	X	45.3	mg/L		0.025	SW846-6010B
Manganese, Dissolved		4.31	mg/L		0.05	SW846-6020
Mercury, Dissolved	UW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.154	mg/L		0.01	SW846-6020
Nickel, Dissolved	NX	0.0845	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		139	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	X	0.123	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

PPCB						
PCB-1016	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	-0.0066	pCi/L	0.0057	0.046	RL-7128
Alpha activity	UX	8.25	pCi/L	1.95	10.3	SW846-9310
Americium-241	U	-0.0084	pCi/L	0.0061	0.107	RL-7128
Beta activity	X	74.2	pCi/L	4.47	10.3	SW846-9310
Bismuth-214	X	307	pCi/L	6.4	2.66	RL-7124
Cesium-137	UX	0.187	pCi/L	0.375	1.38	RL-7124
Lead-214	X	290	pCi/L	4.89	3.25	RL-7124
Neptunium-237	U	-0.0060	pCi/L	0.007	0.065	RL-7128
Plutonium-238	U	0.0117	pCi/L	0.0152	0.0426	RL-7128
Plutonium-239/240	U	0.00186	pCi/L	0.0058	0.0497	RL-7128
Technetium-99	DM	113	pCi/L	1.64	0.817	RL-7100
Thorium-228	U	0.0842	pCi/L	0.0419	0.146	RL-7128
Thorium-230	U	0.00583	pCi/L	0.0383	0.107	RL-7128
Thorium-232	U	0.00235	pCi/L	0.0112	0.0706	RL-7128
Thorium-234	U	-5.2	pCi/L	10.4	25.4	RL-7124
Uranium	U	0.0243	pCi/L	0.0537	0.524	RL-7128
Uranium-234	U	0.00538	pCi/L	0.0235	0.358	RL-7128
Uranium-238	U	0.0255	pCi/L	0.0208	0.12	RL-7128
RADS-D						
Activity of U-235	U	-0.0035	pCi/L	0.0006	0.0482	RL-7128
Uranium-234	U	-0.0156	pCi/L	0.0222	0.358	RL-7128
Uranium-238	U	-0.0067	pCi/L	0.0037	0.121	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SA060

Collected: 2/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6630	mg/kg		18.5	SW846-6010B
Antimony	U	9.41	mg/kg		9.41	SW846-6010B
Arsenic		1.47	mg/kg		0.927	SW846-6020
Barium		43.9	mg/kg		2.32	SW846-6010B
Beryllium	U	0.463	mg/kg		0.463	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium	*N	424	mg/kg		92.7	SW846-6010B
Chromium		12.4	mg/kg		2.32	SW846-6010B
Cobalt	X	2.71	mg/kg		2.32	SW846-6010B
Copper		5.17	mg/kg		2.32	SW846-6020
Iron		9410	mg/kg		18.5	SW846-6010B
Lead		4.31	mg/kg		0.927	SW846-6020
Magnesium		568	mg/kg		4.63	SW846-6010B
Manganese	N	132	mg/kg		2.32	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.32	mg/kg		2.32	SW846-6010B
Nickel		7.15	mg/kg		4.63	SW846-6010B
Selenium	U	0.927	mg/kg		0.927	SW846-6020
Silver	UX	2.32	mg/kg		2.32	SW846-6010B
Sodium	U	92.7	mg/kg		92.7	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	U	0.927	mg/kg		0.927	SW846-6020
Vanadium		5.03	mg/kg		2.32	SW846-6010B
Zinc	X	27.9	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0141	pCi/g	0	0.0386	RL-7128
Alpha activity		2.35	pCi/g	0.652	0.69	RL-7111
Americium-241	U	-0.0032	pCi/g	0.0024	0.0297	RL-7128
Beta activity		2.11	pCi/g	0.316	0.761	RL-7111
Cesium-137	U	-0.0019	pCi/g	0.0037	0.0445	RL-7124
Cobalt-60	U	-0.0178	pCi/g	0.0356	0.0356	RL-7124
Neptunium-237	U	0.00057	pCi/g	0.0011	0.0408	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0	0.0184	RL-7128
Plutonium-239/240	U	-0.0038	pCi/g	0.0018	0.0178	RL-7128
Technetium-99	U	0.0204	pCi/g	1.15	1.83	RL-7100
Thorium-228		0.134	pCi/g	0.0386	0.0929	RL-7128
Thorium-230	U	0.0224	pCi/g	0.0313	0.109	RL-7128
Thorium-232		0.104	pCi/g	0.034	0.0572	RL-7128
Thorium-234	U	1.57	pCi/g	3.13	1.19	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	-0.0684	pCi/g	0.0365	0.293	RL-7128
Uranium-234	U	-0.0209	pCi/g	0.0221	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0334	pCi/g	0.0175	0.126	RL-7128

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006-102

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

006102SD015

Collected: 2/22/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8100	mg/kg		18.7	SW846-6010B
Antimony	U	9.15	mg/kg		9.15	SW846-6010B
Arsenic		1.55	mg/kg		0.934	SW846-6020
Barium		66.2	mg/kg		2.33	SW846-6010B
Beryllium	U	0.467	mg/kg		0.467	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium	*N	942	mg/kg		93.4	SW846-6010B
Chromium		11.5	mg/kg		2.33	SW846-6010B
Cobalt	X	5	mg/kg		2.33	SW846-6010B
Copper		4.85	mg/kg		2.33	SW846-6020
Iron		7830	mg/kg		18.7	SW846-6010B
Lead		7.13	mg/kg		0.934	SW846-6020
Magnesium		918	mg/kg		4.67	SW846-6010B
Manganese	N	288	mg/kg		2.33	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel		7.67	mg/kg		4.67	SW846-6010B
Selenium	U	0.934	mg/kg		0.934	SW846-6020
Silver	UX	2.33	mg/kg		2.33	SW846-6010B
Sodium	U	93.4	mg/kg		93.4	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.934	mg/kg		0.934	SW846-6020
Vanadium		7.97	mg/kg		2.33	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	90	ug/kg		90	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0061	pCi/g	0.0079	0.0357	RL-7128
Alpha activity		3.22	pCi/g	0.798	0.724	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0017	0.0303	RL-7128
Beta activity		2.59	pCi/g	0.37	0.778	RL-7111
Cesium-137	U	-0.0183	pCi/g	0.0366	0.0517	RL-7124
Cobalt-60	U	-9E-05	pCi/g	0.0002	0.0512	RL-7124
Neptunium-237	U	-0.0005	pCi/g	0.001	0.0398	RL-7128
Plutonium-238	U	-0.0043	pCi/g	0.0034	0.0187	RL-7128
Plutonium-239/240	U	-0.0026	pCi/g	0.0007	0.0184	RL-7128
Technetium-99	U	-0.149	pCi/g	1.14	1.83	RL-7100
Thorium-228		0.305	pCi/g	0.0512	0.0921	RL-7128
Thorium-230		0.2	pCi/g	0.0477	0.109	RL-7128
Thorium-232		0.319	pCi/g	0.052	0.0559	RL-7128
Thorium-234	U	1.49	pCi/g	2.97	1.3	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB1

Uranium	U	-0.0077	pCi/g	0.0081	0.288	RL-7128
Uranium-234	U	0.00095	pCi/g	0.0226	0.128	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0027	pCi/g	0.02	0.124	RL-7128

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006-103

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103SA010

Collected: 2/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6740	mg/kg		18.4	SW846-6010B
Antimony	*NU	9.57	mg/kg		9.57	SW846-6010B
Arsenic		2.59	mg/kg		0.921	SW846-6020
Barium		97.5	mg/kg		2.3	SW846-6010B
Beryllium	U	0.461	mg/kg		0.461	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium	N	961	mg/kg		92.1	SW846-6010B
Chromium		10.2	mg/kg		2.3	SW846-6010B
Cobalt	X	4.57	mg/kg		2.3	SW846-6010B
Copper		7.28	mg/kg		2.3	SW846-6020
Iron		9660	mg/kg		18.4	SW846-6010B
Lead		6.9	mg/kg		0.921	SW846-6020
Magnesium		1060	mg/kg		4.61	SW846-6010B
Manganese	*	282	mg/kg		2.3	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		10.7	mg/kg		4.61	SW846-6010B
Selenium	U	0.921	mg/kg		0.921	SW846-6020
Silver	UX	2.3	mg/kg		2.3	SW846-6010B
Sodium		158	mg/kg		92.1	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	U	0.921	mg/kg		0.921	SW846-6020
Vanadium	X	26.5	mg/kg		2.3	SW846-6010B
Zinc	X	21.5	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0204	pCi/g	0.014	0.0733	RL-7128
Alpha activity		4.83	pCi/g	1.44	1.46	RL-7111
Americium-241	U	-0.0016	pCi/g	0.0007	0.0598	RL-7128
Beta activity		6.35	pCi/g	0.929	1.59	RL-7111
Cesium-137	U	-0.0204	pCi/g	0.0407	0.0436	RL-7124
Cobalt-60	U	-0.0061	pCi/g	0.0122	0.0402	RL-7124
Neptunium-237	U	-0.0036	pCi/g	0.0072	0.135	RL-7128
Plutonium-238	U	0.00406	pCi/g	0.0102	0.036	RL-7128
Plutonium-239/240	U	0.00104	pCi/g	0.0074	0.0378	RL-7128
Technetium-99	U	1.01	pCi/g	2.43	3.69	RL-7100
Thorium-228		0.303	pCi/g	0.0649	0.226	RL-7128
Thorium-230	U	0.155	pCi/g	0.0629	0.255	RL-7128
Thorium-232		0.287	pCi/g	0.0626	0.129	RL-7128
Thorium-234	U	0.165	pCi/g	0.33	1.18	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.0189	pCi/g	0.0389	0.565	RL-7128
Uranium-234	U	0.0186	pCi/g	0.0359	0.253	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0208	pCi/g	0.0312	0.238	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103SA015

Collected: 2/8/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6320	mg/kg		18.4	SW846-6010B
Antimony	*NU	9.48	mg/kg		9.48	SW846-6010B
Arsenic		2.02	mg/kg		0.919	SW846-6020
Barium		51.8	mg/kg		2.3	SW846-6010B
Beryllium	U	0.46	mg/kg		0.46	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium	N	855	mg/kg		91.9	SW846-6010B
Chromium		8.78	mg/kg		2.3	SW846-6010B
Cobalt		3.11	mg/kg		2.3	SW846-6010B
Copper		4.91	mg/kg		2.3	SW846-6020
Iron		8260	mg/kg		18.4	SW846-6010B
Lead		6.69	mg/kg		0.919	SW846-6020
Magnesium		817	mg/kg		4.6	SW846-6010B
Manganese	*	152	mg/kg		2.3	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		6.42	mg/kg		4.6	SW846-6010B
Selenium	U	0.919	mg/kg		0.919	SW846-6020
Silver	UX	2.3	mg/kg		2.3	SW846-6010B
Sodium		160	mg/kg		91.9	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	U	0.919	mg/kg		0.919	SW846-6020
Vanadium	X	26	mg/kg		2.3	SW846-6010B
Zinc	UX	18.4	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0182	pCi/g	0.0096	0.0724	RL-7128
Alpha activity		2.82	pCi/g	1.01	1.25	RL-7111
Americium-241	U	-0.0012	pCi/g	0.0015	0.0608	RL-7128
Beta activity		2.56	pCi/g	0.48	1.52	RL-7111
Cesium-137	U	-0.0044	pCi/g	0.0088	0.0454	RL-7124
Cobalt-60	U	-0.0182	pCi/g	0.0363	0.0396	RL-7124
Neptunium-237	U	-0.0065	pCi/g	0.0129	0.136	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0	0.036	RL-7128
Plutonium-239/240	U	0.00124	pCi/g	0.0077	0.0372	RL-7128
Technetium-99	U	-0.082	pCi/g	2.2	3.69	RL-7100
Thorium-228		0.388	pCi/g	0.076	0.226	RL-7128
Thorium-230	U	0.225	pCi/g	0.0689	0.254	RL-7128
Thorium-232		0.296	pCi/g	0.0654	0.13	RL-7128
Thorium-234	U	1.2	pCi/g	2.4	1.17	RL-7124

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BGOU07-SWMU6A	Burial Ground OU SWMU 6 Angle Borings				BGOU07-SWMU6ASB2
Uranium	U	0.0966	pCi/g	0.197	0.565 RL-7128
Uranium-234	U	0.0534	pCi/g	0.0417	0.253 RL-7128
Uranium-235			wt %		RL-7128
Uranium-238	U	0.0613	pCi/g	0.0374	0.239 RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103SA030

Collected: 2/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4970	mg/kg		17.9	SW846-6010B
Antimony	*NU	9.56	mg/kg		9.56	SW846-6010B
Arsenic		3.15	mg/kg		0.896	SW846-6020
Barium		13.9	mg/kg		2.24	SW846-6010B
Beryllium	U	0.448	mg/kg		0.448	SW846-6010B
Cadmium	U	1.79	mg/kg		1.79	SW846-6010B
Calcium	N	595	mg/kg		89.6	SW846-6010B
Chromium		9.81	mg/kg		2.24	SW846-6010B
Cobalt	UX	2.24	mg/kg		2.24	SW846-6010B
Copper		4.93	mg/kg		2.24	SW846-6020
Iron		17200	mg/kg		17.9	SW846-6010B
Lead		4.4	mg/kg		0.896	SW846-6020
Magnesium		291	mg/kg		4.48	SW846-6010B
Manganese	*	19.7	mg/kg		2.24	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel	U	4.48	mg/kg		4.48	SW846-6010B
Selenium	U	0.896	mg/kg		0.896	SW846-6020
Silver	UX	2.24	mg/kg		2.24	SW846-6010B
Sodium	U	89.6	mg/kg		89.6	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium	U	0.896	mg/kg		0.896	SW846-6020
Vanadium	X	35.1	mg/kg		2.24	SW846-6010B
Zinc	UX	17.9	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0126	pCi/g	0.0017	0.0728	RL-7128
Alpha activity		4.08	pCi/g	1.29	1.36	RL-7111
Americium-241	U	0.016	pCi/g	0.0146	0.0608	RL-7128
Beta activity		3.87	pCi/g	0.656	1.56	RL-7111
Cesium-137	U	0.00528	pCi/g	0.0106	0.0494	RL-7124
Cobalt-60	U	-0.0022	pCi/g	0.0044	0.0396	RL-7124
Neptunium-237	U	0.00567	pCi/g	0.0113	0.134	RL-7128
Plutonium-238	U	0.00846	pCi/g	0.01	0.0352	RL-7128
Plutonium-239/240	U	-0.0033	pCi/g	0.0019	0.0372	RL-7128
Technetium-99	U	-1.53	pCi/g	2.32	3.69	RL-7100
Thorium-228		0.301	pCi/g	0.0677	0.227	RL-7128
Thorium-230	U	0.178	pCi/g	0.0617	0.253	RL-7128
Thorium-232		0.425	pCi/g	0.0784	0.13	RL-7128
Thorium-234	U	1.24	pCi/g	2.49	1.3	RL-7124

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.147	pCi/g	0.298	0.565	RL-7128
Uranium-234	U	0.0799	pCi/g	0.0458	0.254	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0792	pCi/g	0.0398	0.239	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103SA045

Collected: 2/9/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8750	mg/kg		17.9	SW846-6010B
Antimony	*NU	9.68	mg/kg		9.68	SW846-6010B
Arsenic	U	0.894	mg/kg		0.894	SW846-6020
Barium		63.8	mg/kg		2.24	SW846-6010B
Beryllium	U	0.447	mg/kg		0.447	SW846-6010B
Cadmium	U	1.79	mg/kg		1.79	SW846-6010B
Calcium	N	1410	mg/kg		89.4	SW846-6010B
Chromium		7.43	mg/kg		2.24	SW846-6010B
Cobalt		16.4	mg/kg		2.24	SW846-6010B
Copper		4.73	mg/kg		2.24	SW846-6020
Iron		5910	mg/kg		17.9	SW846-6010B
Lead		8.92	mg/kg		0.894	SW846-6020
Magnesium		764	mg/kg		4.47	SW846-6010B
Manganese	*	150	mg/kg		2.24	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel		6.16	mg/kg		4.47	SW846-6010B
Selenium	U	0.894	mg/kg		0.894	SW846-6020
Silver	UX	2.24	mg/kg		2.24	SW846-6010B
Sodium		123	mg/kg		89.4	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium		1.05	mg/kg		0.894	SW846-6020
Vanadium	X	26.4	mg/kg		2.24	SW846-6010B
Zinc	X	20.2	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0033	pCi/g	0.0116	0.0731	RL-7128
Alpha activity		5	pCi/g	1.44	1.33	RL-7111
Americium-241	U	-0.0007	pCi/g	0.0024	0.0613	RL-7128
Beta activity		3.55	pCi/g	0.616	1.55	RL-7111
Cesium-137	U	-0.0138	pCi/g	0.0275	0.0443	RL-7124
Cobalt-60	U	0.00227	pCi/g	0.0045	0.0328	RL-7124
Neptunium-237	U	0.00623	pCi/g	0.0125	0.137	RL-7128
Plutonium-238	U	0.00396	pCi/g	0.0078	0.0352	RL-7128
Plutonium-239/240	U	-0.0011	pCi/g	0.0062	0.0461	RL-7128
Technetium-99	U	-3.24	pCi/g	2.3	3.69	RL-7100
Thorium-228	U	0.104	pCi/g	0.0418	0.227	RL-7128
Thorium-230	U	0.0321	pCi/g	0.0442	0.254	RL-7128
Thorium-232	U	0.111	pCi/g	0.0419	0.131	RL-7128
Thorium-234	U	0.774	pCi/g	1.55	1.25	RL-7124

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BGOU07-SWMU6A	Burial Ground OU SWMU 6 Angle Borings				BGOU07-SWMU6ASB2
Uranium	U	0.0694	pCi/g	0.0864	0.566 RL-7128
Uranium-234	U	0.0297	pCi/g	0.0395	0.253 RL-7128
Uranium-235			wt %		RL-7128
Uranium-238	U	0.0431	pCi/g	0.0368	0.239 RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103WA060

Collected: 2/12/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		26.2	mg/L		0.2	SW846-6010B
Antimony	U	5	ug/L		5	SW846-6020
Arsenic	U	10	ug/L		10	SW846-6020
Barium		398	ug/L		5	SW846-6020
Beryllium	U	1	ug/L		1	SW846-6020
Cadmium		0.837	ug/L		0.6	SW846-6020
Calcium		45.1	mg/L		1	SW846-6010B
Chromium	U	100	ug/L		100	SW846-6020
Cobalt		37.2	ug/L		10	SW846-6020
Copper	U	200	ug/L		200	SW846-6020
Iron		62.2	mg/L		0.05	SW846-6010B
Lead		8.08	ug/L		1.3	SW846-6020
Magnesium		22.2	mg/L		0.025	SW846-6010B
Manganese		1890	ug/L		50	SW846-6020
Mercury	W	0.047	ug/L		0.01	SW846-7470A
Molybdenum		70.3	ug/L		1	SW846-6020
Nickel		52.3	ug/L		50	SW846-6020
Selenium	U	5	ug/L		5	SW846-6020
Silver	BU	1	ug/L		1	SW846-6020
Sodium		112	mg/L		0.5	SW846-6010B
Thallium	U	2	ug/L		2	SW846-6020
Uranium		2.75	ug/L		1	SW846-6020
Vanadium	U	200	ug/L		200	SW846-6020
Zinc		497	ug/L		200	SW846-6020
PCCB						
PCB-1016	UX	0.1	ug/L		0.1	SW846-8082
PCB-1221	U	0.1	ug/L		0.1	SW846-8082
PCB-1232	U	0.1	ug/L		0.1	SW846-8082
PCB-1242	U	0.1	ug/L		0.1	SW846-8082
PCB-1248	U	0.1	ug/L		0.1	SW846-8082
PCB-1254	U	0.1	ug/L		0.1	SW846-8082
PCB-1260	U	0.1	ug/L		0.1	SW846-8082
PCB-1268	U	0.1	ug/L		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	ug/L		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0181	pCi/L	0.0054	0.0498	RL-7128
Alpha activity	MUX	4.78	pCi/L	0.553	4.88	SW846-9310
Americium-241	U	-0.0021	pCi/L	0.0066	0.106	RL-7128
Beta activity		235	pCi/L	5.75	4.88	SW846-9310
Bismuth-214		529	pCi/L	6	2.28	RL-7124
Cesium-137	U	0.323	pCi/L	0.647	1.23	RL-7124
Lead-214		509	pCi/L	5.45	3.1	RL-7124
Neptunium-237	U	0.00715	pCi/L	0.0194	0.0634	RL-7128
Plutonium-238	U	-0.0031	pCi/L	0	0.0423	RL-7128
Plutonium-239/240	U	0.00439	pCi/L	0.0077	0.0486	RL-7128
Technetium-99	D	104	pCi/L	1.39	0.666	RL-7100
Thorium-228		0.18	pCi/L	0.066	0.154	RL-7128
Thorium-230	U	0.0982	pCi/L	0.0592	0.11	RL-7128
Thorium-232		0.0667	pCi/L	0.0434	0.0607	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Thorium-234	U	-12.2	pCi/L	24.4	31.3	RL-7124
Uranium	U	0.827	pCi/L	0.371	0.531	RL-7128
Uranium-234	U	0.287	pCi/L	0.0651	0.359	RL-7128
Uranium-238		0.558	pCi/L	0.0819	0.122	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006103SA060

Collected: 2/14/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		11300	mg/kg		18	SW846-6010B
Antimony	*NU	9.44	mg/kg		9.44	SW846-6010B
Arsenic		2.43	mg/kg		0.902	SW846-6020
Barium		53.7	mg/kg		2.26	SW846-6010B
Beryllium	U	0.451	mg/kg		0.451	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium	N	888	mg/kg		90.2	SW846-6010B
Chromium		9.2	mg/kg		2.26	SW846-6010B
Cobalt	UX	2.26	mg/kg		2.26	SW846-6010B
Copper		7.74	mg/kg		2.26	SW846-6020
Iron		15400	mg/kg		18	SW846-6010B
Lead		4.73	mg/kg		0.902	SW846-6020
Magnesium		1270	mg/kg		4.51	SW846-6010B
Manganese	*	98.6	mg/kg		2.26	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.26	mg/kg		2.26	SW846-6010B
Nickel		10.8	mg/kg		4.51	SW846-6010B
Selenium	U	0.902	mg/kg		0.902	SW846-6020
Silver	UX	2.26	mg/kg		2.26	SW846-6010B
Sodium	U	90.2	mg/kg		90.2	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	U	0.902	mg/kg		0.902	SW846-6020
Vanadium	X	38.5	mg/kg		2.26	SW846-6010B
Zinc	X	43.4	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0102	pCi/g	0.0064	0.0718	RL-7128
Alpha activity		3.12	pCi/g	1.12	1.45	RL-7111
Americium-241	U	-0.0072	pCi/g	0.0074	0.0621	RL-7128
Beta activity		4.23	pCi/g	0.703	1.59	RL-7111
Cesium-137	U	0.0123	pCi/g	0.0247	0.0473	RL-7124
Cobalt-60	U	0.00521	pCi/g	0.0104	0.0433	RL-7124
Neptunium-237	U	-0.0016	pCi/g	0.0032	0.134	RL-7128
Plutonium-238	U	0.0115	pCi/g	0.0116	0.0356	RL-7128
Plutonium-239/240	U	-0.0039	pCi/g	0.0007	0.0392	RL-7128
Technetium-99	U	-2.41	pCi/g	2.31	3.69	RL-7100
Thorium-228		0.358	pCi/g	0.0741	0.228	RL-7128
Thorium-230	U	0.0826	pCi/g	0.0531	0.255	RL-7128
Thorium-232		0.33	pCi/g	0.0719	0.13	RL-7128
Thorium-234	U	1.02	pCi/g	2.04	1.17	RL-7124

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.0484	pCi/g	0.0994	0.565	RL-7128
Uranium-234	U	0.027	pCi/g	0.0397	0.254	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0316	pCi/g	0.0328	0.239	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104SA010

Collected: 2/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7690	mg/kg		19.2	SW846-6010B
Antimony	*NU	9.5	mg/kg		9.5	SW846-6010B
Arsenic		2.54	mg/kg		0.959	SW846-6020
Barium		86.1	mg/kg		2.4	SW846-6010B
Beryllium	U	0.479	mg/kg		0.479	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium	N	945	mg/kg		95.9	SW846-6010B
Chromium		10.4	mg/kg		2.4	SW846-6010B
Cobalt	X	4.45	mg/kg		2.4	SW846-6010B
Copper		6.74	mg/kg		2.4	SW846-6020
Iron		10400	mg/kg		19.2	SW846-6010B
Lead		9.08	mg/kg		0.959	SW846-6020
Magnesium		967	mg/kg		4.79	SW846-6010B
Manganese	*	309	mg/kg		2.4	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel		10.5	mg/kg		4.79	SW846-6010B
Selenium	U	0.959	mg/kg		0.959	SW846-6020
Silver	UX	2.4	mg/kg		2.4	SW846-6010B
Sodium		142	mg/kg		95.9	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium	U	0.959	mg/kg		0.959	SW846-6020
Vanadium	X	30.9	mg/kg		2.4	SW846-6010B
Zinc	X	20.3	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0073	pCi/g	0.0111	0.0713	RL-7128
Alpha activity		3.46	pCi/g	1.14	1.22	RL-7111
Americium-241	U	0.0013	pCi/g	0.0065	0.0607	RL-7128
Beta activity		2.24	pCi/g	0.432	1.5	RL-7111
Cesium-137	U	-0.019	pCi/g	0.038	0.0406	RL-7124
Cobalt-60	U	0.00772	pCi/g	0.0154	0.043	RL-7124
Neptunium-237	U	-0.0032	pCi/g	0.0063	0.135	RL-7128
Plutonium-238	U	0.00361	pCi/g	0.0073	0.0364	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.0058	0.0372	RL-7128
Technetium-99	U	-1.74	pCi/g	2.32	3.69	RL-7100
Thorium-228		0.506	pCi/g	0.088	0.228	RL-7128
Thorium-230		0.341	pCi/g	0.0835	0.257	RL-7128
Thorium-232		0.402	pCi/g	0.0769	0.132	RL-7128
Thorium-234	U	0.972	pCi/g	1.94	1.18	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.202	pCi/g	0.373	0.562	RL-7128
Uranium-234	U	0.0953	pCi/g	0.0441	0.252	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.114	pCi/g	0.0419	0.239	RL-7128

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006-104

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104SA015

Collected: 2/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7640	mg/kg		18.3	SW846-6010B
Antimony	*NU	9.55	mg/kg		9.55	SW846-6010B
Arsenic		1.1	mg/kg		0.915	SW846-6020
Barium		64.7	mg/kg		2.29	SW846-6010B
Beryllium	U	0.457	mg/kg		0.457	SW846-6010B
Cadmium	U	1.83	mg/kg		1.83	SW846-6010B
Calcium	N	951	mg/kg		91.5	SW846-6010B
Chromium		11.8	mg/kg		2.29	SW846-6010B
Cobalt	X	3.18	mg/kg		2.29	SW846-6010B
Copper		4.97	mg/kg		2.29	SW846-6020
Iron		7070	mg/kg		18.3	SW846-6010B
Lead		5.91	mg/kg		0.915	SW846-6020
Magnesium		914	mg/kg		4.57	SW846-6010B
Manganese	*	151	mg/kg		2.29	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.29	mg/kg		2.29	SW846-6010B
Nickel		7.2	mg/kg		4.57	SW846-6010B
Selenium	U	0.915	mg/kg		0.915	SW846-6020
Silver	UX	2.29	mg/kg		2.29	SW846-6010B
Sodium		140	mg/kg		91.5	SW846-6010B
Thallium	U	1.83	mg/kg		1.83	SW846-6020
Uranium	U	0.915	mg/kg		0.915	SW846-6020
Vanadium	X	25.5	mg/kg		2.29	SW846-6010B
Zinc	UX	18.3	mg/kg		18.3	SW846-6010B
PCCB						
PCB-1016	U	0.1	mg/kg		0.1	SW846-8082
PCB-1221	U	0.1	mg/kg		0.1	SW846-8082
PCB-1232	U	0.1	mg/kg		0.1	SW846-8082
PCB-1242	U	0.1	mg/kg		0.1	SW846-8082
PCB-1248	U	0.1	mg/kg		0.1	SW846-8082
PCB-1254	U	0.1	mg/kg		0.1	SW846-8082
PCB-1260	U	0.1	mg/kg		0.1	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	mg/kg		0.1	SW846-8082
RADS						
Activity of U-235	U	-0.0032	pCi/g	0.0118	0.0741	RL-7128
Alpha activity		3.38	pCi/g	1.13	1.24	RL-7111
Americium-241	U	0.00416	pCi/g	0.0111	0.0597	RL-7128
Beta activity		2.5	pCi/g	0.471	1.52	RL-7111
Cesium-137	U	-0.0354	pCi/g	0.0707	0.0373	RL-7124
Cobalt-60	U	-0.0231	pCi/g	0.0462	0.033	RL-7124
Neptunium-237	U	0.00632	pCi/g	0.0126	0.137	RL-7128
Plutonium-238	U	-0.0012	pCi/g	0.0007	0.0358	RL-7128
Plutonium-239/240	U	-0.0063	pCi/g	0.0041	0.0373	RL-7128
Technetium-99	U	1.61	pCi/g	2.5	3.69	RL-7100
Thorium-228		0.361	pCi/g	0.072	0.227	RL-7128
Thorium-230		0.302	pCi/g	0.0737	0.255	RL-7128
Thorium-232		0.346	pCi/g	0.072	0.131	RL-7128
Thorium-234	U	1.25	pCi/g	2.49	1.14	RL-7124

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BGOU07-SWMU6A	Burial Ground OU SWMU 6 Angle Borings				BGOU07-SWMU6ASB2
Uranium	U	0.0387	pCi/g	0.0486	0.568 RL-7128
Uranium-234	U	0.00582	pCi/g	0.035	0.255 RL-7128
Uranium-235			wt %		RL-7128
Uranium-238	U	0.0361	pCi/g	0.0354	0.24 RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104SA030

Collected: 2/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6270	mg/kg		17.7	SW846-6010B
Antimony	*NU	9.95	mg/kg		9.95	SW846-6010B
Arsenic		3.24	mg/kg		0.884	SW846-6020
Barium		19.1	mg/kg		2.21	SW846-6010B
Beryllium	U	0.442	mg/kg		0.442	SW846-6010B
Cadmium	U	1.77	mg/kg		1.77	SW846-6010B
Calcium	N	725	mg/kg		88.4	SW846-6010B
Chromium		9.94	mg/kg		2.21	SW846-6010B
Cobalt	UX	2.21	mg/kg		2.21	SW846-6010B
Copper		6.4	mg/kg		2.21	SW846-6020
Iron		19100	mg/kg		17.7	SW846-6010B
Lead		5.89	mg/kg		0.884	SW846-6020
Magnesium		328	mg/kg		4.42	SW846-6010B
Manganese	*	27.1	mg/kg		2.21	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.21	mg/kg		2.21	SW846-6010B
Nickel	U	4.42	mg/kg		4.42	SW846-6010B
Selenium	U	0.884	mg/kg		0.884	SW846-6020
Silver	UX	2.21	mg/kg		2.21	SW846-6010B
Sodium	U	88.4	mg/kg		88.4	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium		1.08	mg/kg		0.884	SW846-6020
Vanadium	X	33.8	mg/kg		2.21	SW846-6010B
Zinc	UX	17.7	mg/kg		17.7	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	0.00097	pCi/g	0.0211	0.0725	RL-7128
Alpha activity		4.6	pCi/g	1.56	1.79	RL-7111
Americium-241	U	0.00671	pCi/g	0.01	0.0595	RL-7128
Beta activity		3.52	pCi/g	0.622	1.66	RL-7111
Cesium-137	U	-0.0019	pCi/g	0.0038	0.0433	RL-7124
Cobalt-60	U	-0.0046	pCi/g	0.0091	0.0365	RL-7124
Neptunium-237	U	0.00152	pCi/g	0.0030	0.135	RL-7128
Plutonium-238	U	-0.0012	pCi/g	0.0008	0.0363	RL-7128
Plutonium-239/240	U	-0.009	pCi/g	0.0095	0.0401	RL-7128
Technetium-99	U	-0.711	pCi/g	2.32	3.69	RL-7100
Thorium-228		0.443	pCi/g	0.0764	0.226	RL-7128
Thorium-230	U	0.211	pCi/g	0.0643	0.253	RL-7128
Thorium-232		0.408	pCi/g	0.076	0.13	RL-7128
Thorium-234	U	1.34	pCi/g	2.67	1.26	RL-7124

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.435	pCi/g	0.651	0.565	RL-7128
Uranium-234	U	0.204	pCi/g	0.0572	0.254	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.23	pCi/g	0.0566	0.239	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104SA045

Collected: 2/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5940	mg/kg		19.3	SW846-6010B
Antimony	*NU	9.02	mg/kg		9.02	SW846-6010B
Arsenic	U	0.967	mg/kg		0.967	SW846-6020
Barium		39.3	mg/kg		2.42	SW846-6010B
Beryllium	U	0.484	mg/kg		0.484	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium	N	989	mg/kg		96.7	SW846-6010B
Chromium		8.71	mg/kg		2.42	SW846-6010B
Cobalt	X	2.71	mg/kg		2.42	SW846-6010B
Copper		2.55	mg/kg		2.42	SW846-6020
Iron		4260	mg/kg		19.3	SW846-6010B
Lead		3.7	mg/kg		0.967	SW846-6020
Magnesium		552	mg/kg		4.84	SW846-6010B
Manganese	*	60.5	mg/kg		2.42	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	U	4.84	mg/kg		4.84	SW846-6010B
Selenium	U	0.967	mg/kg		0.967	SW846-6020
Silver	UX	2.42	mg/kg		2.42	SW846-6010B
Sodium	U	96.7	mg/kg		96.7	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium	U	0.967	mg/kg		0.967	SW846-6020
Vanadium	X	19.1	mg/kg		2.42	SW846-6010B
Zinc	UX	19.3	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.018	pCi/g	0.0093	0.073	RL-7128
Alpha activity		3.51	pCi/g	1.14	1.2	RL-7111
Americium-241	U	-0.0008	pCi/g	0.0024	0.0606	RL-7128
Beta activity		2.12	pCi/g	0.412	1.48	RL-7111
Cesium-137	U	-0.0153	pCi/g	0.0305	0.0388	RL-7124
Cobalt-60	U	-0.0113	pCi/g	0.0227	0.0322	RL-7124
Neptunium-237	U	-0.0035	pCi/g	0.007	0.136	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0	0.0382	RL-7128
Plutonium-239/240	U	-0.0067	pCi/g	0.0049	0.0398	RL-7128
Technetium-99	U	-0.232	pCi/g	2.49	3.69	RL-7100
Thorium-228		0.32	pCi/g	0.0679	0.226	RL-7128
Thorium-230	U	0.11	pCi/g	0.0596	0.255	RL-7128
Thorium-232		0.328	pCi/g	0.0685	0.13	RL-7128
Thorium-234	U	1.7	pCi/g	3.39	1.12	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU6A Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

Uranium	U	0.0866	pCi/g	0.177	0.567	RL-7128
Uranium-234	U	0.0496	pCi/g	0.041	0.255	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.055	pCi/g	0.036	0.239	RL-7128

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104WA060

Collected: 2/19/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		792	mg/L		0.2	SW846-6010B
Antimony	U	5	ug/L		5	SW846-6020
Arsenic		150	ug/L		100	SW846-6020
Barium		4820	ug/L		50	SW846-6020
Beryllium		22.5	ug/L		1	SW846-6020
Cadmium		4.06	ug/L		0.6	SW846-6020
Calcium		97.3	mg/L		1	SW846-6010B
Chromium		3320	ug/L		1000	SW846-6020
Cobalt		2180	ug/L		100	SW846-6020
Copper	U	2000	ug/L		2000	SW846-6020
Iron		732	mg/L		0.05	SW846-6010B
Lead		427	ug/L		13	SW846-6020
Magnesium		53.3	mg/L		0.025	SW846-6010B
Manganese		20900	ug/L		500	SW846-6020
Mercury		0.755	ug/L		0.25	SW846-7470A
Molybdenum		359	ug/L		10	SW846-6020
Nickel		953	ug/L		500	SW846-6020
Selenium	U	5	ug/L		5	SW846-6020
Silver	B	3.67	ug/L		1	SW846-6020
Sodium		39.2	mg/L		0.5	SW846-6010B
Thallium		6.53	ug/L		2	SW846-6020
Uranium		43.8	ug/L		1	SW846-6020
Vanadium	U	2000	ug/L		2000	SW846-6020
Zinc		9190	ug/L		2000	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	5	ug/L		5	SW846-6020
Arsenic, Dissolved		1.44	ug/L		1	SW846-6020
Barium, Dissolved		545	ug/L		5	SW846-6020
Beryllium, Dissolved	U	1	ug/L		1	SW846-6020
Cadmium, Dissolved	U	0.6	ug/L		0.6	SW846-6020
Calcium, Dissolved		49	mg/L		1	SW846-6010B
Chromium, Dissolved	U	10	ug/L		10	SW846-6020
Cobalt, Dissolved		333	ug/L		10	SW846-6020
Copper, Dissolved	UX	20	ug/L		20	SW846-6020
Iron, Dissolved		25.7	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	1.3	ug/L		1.3	SW846-6020
Magnesium, Dissolved	X	19.1	mg/L		0.025	SW846-6010B
Manganese, Dissolved		5440	ug/L		50	SW846-6020
Mercury, Dissolved	UW	0.01	ug/L		0.01	SW846-7470A
Molybdenum, Dissolved		37	ug/L		1	SW846-6020
Nickel, Dissolved	NX	72.8	ug/L		5	SW846-6020
Selenium, Dissolved		5.74	ug/L		5	SW846-6020
Silver, Dissolved	U	1	ug/L		1	SW846-6020
Sodium, Dissolved		40.3	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	2	ug/L		2	SW846-6020
Uranium, Dissolved	U	1	ug/L		1	SW846-6020
Vanadium, Dissolved	U	20	ug/L		20	SW846-6020
Zinc, Dissolved	X	382	ug/L		20	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

PPCB						
PCB-1016	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235		0.253	pCi/L	0.0666	0.0522	RL-7128
Alpha activity	X	112	pCi/L	6.32	3.35	SW846-9310
Americium-241	U	-0.0047	pCi/L	0.0014	0.11	RL-7128
Beta activity	X	169	pCi/L	4.36	3.05	SW846-9310
Bismuth-214		198	pCi/L	5.74	2.81	RL-7124
Cesium-137	U	0.227	pCi/L	0.454	1.5	RL-7124
Lead-214		200	pCi/L	4.62	3.09	RL-7124
Neptunium-237	U	-0.0007	pCi/L	0.0037	0.067	RL-7128
Plutonium-238	U	-0.0109	pCi/L	0.0091	0.0429	RL-7128
Plutonium-239/240	U	0.0018	pCi/L	0.0057	0.0489	RL-7128
Technetium-99	D	17.3	pCi/L	0.714	0.666	RL-7100
Thorium-228		0.866	pCi/L	0.114	0.15	RL-7128
Thorium-230		0.299	pCi/L	0.0746	0.106	RL-7128
Thorium-232		0.176	pCi/L	0.0545	0.0566	RL-7128
Thorium-234	U	-4.5	pCi/L	9.01	26.2	RL-7124
Uranium		11.5	pCi/L	3.1	0.534	RL-7128
Uranium-234		5.53	pCi/L	0.269	0.359	RL-7128
Uranium-238		5.76	pCi/L	0.273	0.123	RL-7128
RADS-D						
Activity of U-235	U	0.00327	pCi/L	0.0099	0.0499	RL-7128
Uranium-234	U	-0.0023	pCi/L	0.018	0.358	RL-7128
Uranium-238	U	0.0128	pCi/L	0.0192	0.121	RL-7128

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12/18/2007

006-104

BGOU07-SWMU6A

Burial Ground OU SWMU 6 Angle Borings BGOU07-SWMU6ASB2

006104SA060

Collected: 2/21/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5830	mg/kg		18.2	SW846-6010B
Antimony	U	9.95	mg/kg		9.95	SW846-6010B
Arsenic		1.41	mg/kg		0.912	SW846-6020
Barium		44.4	mg/kg		2.28	SW846-6010B
Beryllium	U	0.456	mg/kg		0.456	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium	*N	800	mg/kg		91.2	SW846-6010B
Chromium		16.8	mg/kg		2.28	SW846-6010B
Cobalt	X	3.11	mg/kg		2.28	SW846-6010B
Copper		5.27	mg/kg		2.28	SW846-6020
Iron		8810	mg/kg		18.2	SW846-6010B
Lead		4.45	mg/kg		0.912	SW846-6020
Magnesium		586	mg/kg		4.56	SW846-6010B
Manganese	N	149	mg/kg		2.28	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel		6.92	mg/kg		4.56	SW846-6010B
Selenium	U	0.912	mg/kg		0.912	SW846-6020
Silver	UX	2.28	mg/kg		2.28	SW846-6010B
Sodium	U	91.2	mg/kg		91.2	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.912	mg/kg		0.912	SW846-6020
Vanadium		7.29	mg/kg		2.28	SW846-6010B
Zinc	X	32.6	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	0.09	mg/kg		0.09	SW846-8082
PCB-1221	U	0.09	mg/kg		0.09	SW846-8082
PCB-1232	U	0.09	mg/kg		0.09	SW846-8082
PCB-1242	U	0.09	mg/kg		0.09	SW846-8082
PCB-1248	U	0.09	mg/kg		0.09	SW846-8082
PCB-1254	U	0.09	mg/kg		0.09	SW846-8082
PCB-1260	U	0.09	mg/kg		0.09	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	0.09	mg/kg		0.09	SW846-8082
RADS						
Activity of U-235	U	-0.0006	pCi/g	0.0128	0.0724	RL-7128
Alpha activity		3.4	pCi/g	1.22	1.5	RL-7111
Americium-241	U	0.00091	pCi/g	0.0057	0.0602	RL-7128
Beta activity		2.49	pCi/g	0.475	1.6	RL-7111
Cesium-137	U	0.0271	pCi/g	0.0541	0.103	RL-7124
Cobalt-60	U	-0.0261	pCi/g	0.0522	0.0833	RL-7124
Neptunium-237	U	-0.0044	pCi/g	0.0089	0.134	RL-7128
Plutonium-238	U	0.00395	pCi/g	0.0078	0.0351	RL-7128
Plutonium-239/240	U	-0.0011	pCi/g	0.0062	0.0367	RL-7128
Technetium-99	U	-1.65	pCi/g	2.33	3.69	RL-7100
Thorium-228		0.439	pCi/g	0.0841	0.228	RL-7128
Thorium-230	U	0.179	pCi/g	0.0652	0.256	RL-7128
Thorium-232		0.36	pCi/g	0.077	0.131	RL-7128
Thorium-234	U	2.44	pCi/g	4.88	1.77	RL-7124

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BGOU07-SWMU6A	Burial Ground OU SWMU 6 Angle Borings				BGOU07-SWMU6ASB2
Uranium	U	0.156	pCi/g	0.167	0.565 RL-7128
Uranium-234	U	0.0903	pCi/g	0.0444	0.253 RL-7128
Uranium-235			wt %		RL-7128
Uranium-238	U	0.0662	pCi/g	0.039	0.24 RL-7128

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007-001

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SA010

Collected: 3/28/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8960	mg/kg		18.7	SW846-6010B
Antimony	U	9.47	mg/kg		9.47	SW846-6010B
Arsenic		2.05	mg/kg		0.936	SW846-6020
Barium		98.2	mg/kg		2.34	SW846-6010B
Beryllium	BUX	0.468	mg/kg		0.468	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium		839	mg/kg		93.6	SW846-6010B
Chromium		13	mg/kg		2.34	SW846-6010B
Cobalt	X	3.46	mg/kg		2.34	SW846-6010B
Copper		9.45	mg/kg		2.34	SW846-6020
Iron	*	10900	mg/kg		18.7	SW846-6010B
Lead		5.25	mg/kg		0.936	SW846-6020
Magnesium		1270	mg/kg		4.68	SW846-6010B
Manganese	N	193	mg/kg		2.34	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	X	11.9	mg/kg		4.68	SW846-6010B
Selenium	U	0.936	mg/kg		0.936	SW846-6020
Silver	U	2.34	mg/kg		2.34	SW846-6010B
Sodium	X	134	mg/kg		93.6	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.936	mg/kg		0.936	SW846-6020
Vanadium	UX	2.34	mg/kg		2.34	SW846-6010B
Zinc	X	34	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00339	pCi/g	0.0092	0.0372	RL-7128
Alpha activity		4.91	pCi/g	1.45	1.15	RL-7111
Americium-241	U	-0.0013	pCi/g	0.0052	0.0293	RL-7128
Beta activity		3.89	pCi/g	0.675	1.27	RL-7111
Cesium-137	U	-0.0021	pCi/g	0.0043	0.0718	RL-7124
Cobalt-60	U	-0.0238	pCi/g	0.0475	0.0695	RL-7124
Neptunium-237	U	-0.0003	pCi/g	0.0011	0.0415	RL-7128
Plutonium-238	U	0.00372	pCi/g	0.0059	0.0157	RL-7128
Plutonium-239/240	U	0.00172	pCi/g	0.0036	0.0156	RL-7128
Technetium-99	U	0.474	pCi/g	1.32	1.74	RL-7100
Thorium-228		0.503	pCi/g	0.0673	0.0847	RL-7128
Thorium-230		0.442	pCi/g	0.066	0.24	RL-7128
Thorium-232		0.42	pCi/g	0.0607	0.168	RL-7128
Thorium-234	U	1.59	pCi/g	3.19	1.33	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.298	pCi/g	0.598	0.301	RL-7128
Uranium-234		0.148	pCi/g	0.0348	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.147	pCi/g	0.0338	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Chlorophenol	JUX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Methylphenol	JUX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
2-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	JUX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	JUX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
Acenaphthene	JUX	500	ug/kg		500	SW846-8270
Acenaphthylene	JUX	500	ug/kg		500	SW846-8270
Anthracene	JUX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	JUX	500	ug/kg		500	SW846-8270
Benzenemethanol	JUX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	JUX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	JUX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzoic acid	BJX	600	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	JUX	500	ug/kg		500	SW846-8270
Chrysene	JUX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	JUX	500	ug/kg		500	SW846-8270
Dibenzofuran	JUX	500	ug/kg		500	SW846-8270
Diethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	BJX	1100	ug/kg		500	SW846-8270
Di-n-octylphthalate	JUX	500	ug/kg		500	SW846-8270
Fluoranthene	JUX	500	ug/kg		500	SW846-8270
Fluorene	JUX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	JUX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	JUX	500	ug/kg	500	SW846-8270
Hexachloroethane	JUX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	500	ug/kg	500	SW846-8270
Isophorone	JUX	500	ug/kg	500	SW846-8270
m,p-Cresol	JUX	500	ug/kg	500	SW846-8270
Naphthalene	JUX	500	ug/kg	500	SW846-8270
Nitrobenzene	JUX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	JUX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	JUX	500	ug/kg	500	SW846-8270
Pentachlorophenol	JUX	500	ug/kg	500	SW846-8270
Phenanthrene	JUX	500	ug/kg	500	SW846-8270
Phenol	JUX	500	ug/kg	500	SW846-8270
Pyrene	JUX	500	ug/kg	500	SW846-8270
Pyridine	JUX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	JU	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg	4.97	SW846-8260
2-Hexanone	JU	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	U	4.97	ug/kg	4.97	SW846-8260
Acrolein	U	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	U	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.93	ug/kg	9.93	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

Paducah-OREIS Data Report

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SA015

Collected: 3/28/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6490	mg/kg		17.1	SW846-6010B
Antimony	U	9.24	mg/kg		9.24	SW846-6010B
Arsenic		1.45	mg/kg		0.854	SW846-6020
Barium		72.1	mg/kg		2.14	SW846-6010B
Beryllium	BUX	0.427	mg/kg		0.427	SW846-6010B
Cadmium	U	1.71	mg/kg		1.71	SW846-6010B
Calcium		876	mg/kg		85.4	SW846-6010B
Chromium		10.6	mg/kg		2.14	SW846-6010B
Cobalt	X	2.47	mg/kg		2.14	SW846-6010B
Copper		5.78	mg/kg		2.14	SW846-6020
Iron	*	9090	mg/kg		17.1	SW846-6010B
Lead		5.9	mg/kg		0.854	SW846-6020
Magnesium		801	mg/kg		4.27	SW846-6010B
Manganese	N	254	mg/kg		2.14	SW846-6010B
Mercury		0.029	mg/kg		0.014	SW846-7471
Molybdenum	U	2.14	mg/kg		2.14	SW846-6010B
Nickel	X	8.92	mg/kg		4.27	SW846-6010B
Selenium	U	0.854	mg/kg		0.854	SW846-6020
Silver	U	2.14	mg/kg		2.14	SW846-6010B
Sodium	X	128	mg/kg		85.4	SW846-6010B
Thallium	U	1.71	mg/kg		1.71	SW846-6020
Uranium	U	0.854	mg/kg		0.854	SW846-6020
Vanadium	X	4.07	mg/kg		2.14	SW846-6010B
Zinc	UX	17.1	mg/kg		17.1	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0116	pCi/g	0.0091	0.0375	RL-7128
Alpha activity		6.09	pCi/g	1.76	1.33	RL-7111
Americium-241	U	-0.0019	pCi/g	0.0066	0.0304	RL-7128
Beta activity		2.32	pCi/g	0.477	1.35	RL-7111
Cesium-137	U	-0.0187	pCi/g	0.0374	0.0451	RL-7124
Cobalt-60	U	0.00666	pCi/g	0.0133	0.0534	RL-7124
Neptunium-237	U	0.0008	pCi/g	0.0033	0.041	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0016	0.0176	RL-7128
Plutonium-239/240	U	0.00072	pCi/g	0.0016	0.0179	RL-7128
Technetium-99	U	-0.404	pCi/g	1.28	1.74	RL-7100
Thorium-228		0.397	pCi/g	0.0672	0.0856	RL-7128
Thorium-230		0.284	pCi/g	0.0623	0.242	RL-7128
Thorium-232		0.306	pCi/g	0.0587	0.169	RL-7128
Thorium-234	U	1.29	pCi/g	2.57	0.9	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.065	pCi/g	0.0505	0.301	RL-7128
Uranium-234	U	0.0307	pCi/g	0.0236	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0227	pCi/g	0.0229	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Chlorophenol	JUX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Methylphenol	JUX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
2-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	JUX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	JUX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
Acenaphthene	JUX	500	ug/kg		500	SW846-8270
Acenaphthylene	JUX	500	ug/kg		500	SW846-8270
Anthracene	JUX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	JUX	500	ug/kg		500	SW846-8270
Benzenemethanol	JUX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	JUX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	JUX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzoic acid	BJX	610	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	JUX	500	ug/kg		500	SW846-8270
Chrysene	JUX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	JUX	500	ug/kg		500	SW846-8270
Dibenzofuran	JUX	500	ug/kg		500	SW846-8270
Diethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	BJX	1400	ug/kg		500	SW846-8270
Di-n-octylphthalate	JUX	500	ug/kg		500	SW846-8270
Fluoranthene	JUX	500	ug/kg		500	SW846-8270
Fluorene	JUX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	JUX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	JUX	500	ug/kg	500	SW846-8270
Hexachloroethane	JUX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	500	ug/kg	500	SW846-8270
Isophorone	JUX	500	ug/kg	500	SW846-8270
m,p-Cresol	JUX	500	ug/kg	500	SW846-8270
Naphthalene	JUX	500	ug/kg	500	SW846-8270
Nitrobenzene	JUX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	JUX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	JUX	500	ug/kg	500	SW846-8270
Pentachlorophenol	JUX	500	ug/kg	500	SW846-8270
Phenanthrene	JUX	500	ug/kg	500	SW846-8270
Phenol	JUX	500	ug/kg	500	SW846-8270
Pyrene	JUX	500	ug/kg	500	SW846-8270
Pyridine	JUX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	JU	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	JU	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	U	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SA030

Collected: 3/28/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4020	mg/kg		17.6	SW846-6010B
Antimony	U	9.62	mg/kg		9.62	SW846-6010B
Arsenic		0.917	mg/kg		0.88	SW846-6020
Barium		13.9	mg/kg		2.2	SW846-6010B
Beryllium	BUX	0.44	mg/kg		0.44	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium		704	mg/kg		88	SW846-6010B
Chromium		8.33	mg/kg		2.2	SW846-6010B
Cobalt	UX	2.2	mg/kg		2.2	SW846-6010B
Copper	U	2.2	mg/kg		2.2	SW846-6020
Iron	*	4080	mg/kg		17.6	SW846-6010B
Lead		4.05	mg/kg		0.88	SW846-6020
Magnesium		314	mg/kg		4.4	SW846-6010B
Manganese	N	25.6	mg/kg		2.2	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.2	mg/kg		2.2	SW846-6010B
Nickel	UX	4.4	mg/kg		4.4	SW846-6010B
Selenium	U	0.88	mg/kg		0.88	SW846-6020
Silver	U	2.2	mg/kg		2.2	SW846-6010B
Sodium	UX	88	mg/kg		88	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium	U	0.88	mg/kg		0.88	SW846-6020
Vanadium	X	2.83	mg/kg		2.2	SW846-6010B
Zinc	UX	17.6	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00541	pCi/g	0.0067	0.0372	RL-7128
Alpha activity		4.03	pCi/g	1.29	1.11	RL-7111
Americium-241	U	-0.0042	pCi/g	0.0033	0.0299	RL-7128
Beta activity		2.21	pCi/g	0.449	1.23	RL-7111
Cesium-137	U	-0.0087	pCi/g	0.0174	0.0421	RL-7124
Cobalt-60	U	-0.0048	pCi/g	0.0096	0.0324	RL-7124
Neptunium-237	U	-0.0051	pCi/g	0.0076	0.0406	RL-7128
Plutonium-238	U	-0.0031	pCi/g	0.0018	0.0173	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.0025	0.0171	RL-7128
Technetium-99	U	0.967	pCi/g	1.32	1.74	RL-7100
Thorium-228		0.292	pCi/g	0.0554	0.0848	RL-7128
Thorium-230	U	0.172	pCi/g	0.0492	0.24	RL-7128
Thorium-232		0.278	pCi/g	0.0529	0.168	RL-7128
Thorium-234	U	0.906	pCi/g	1.81	0.828	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.222	pCi/g	0.229	0.301	RL-7128
Uranium-234	U	0.125	pCi/g	0.0336	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0918	pCi/g	0.0301	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	590	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	790	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	JU	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	JU	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	U	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SA045

Collected: 3/28/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2490	mg/kg		18.5	SW846-6010B
Antimony	U	9.64	mg/kg		9.64	SW846-6010B
Arsenic		0.973	mg/kg		0.926	SW846-6020
Barium		8.86	mg/kg		2.31	SW846-6010B
Beryllium	BUX	0.463	mg/kg		0.463	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium		393	mg/kg		92.6	SW846-6010B
Chromium		4.21	mg/kg		2.31	SW846-6010B
Cobalt	UX	2.31	mg/kg		2.31	SW846-6010B
Copper	U	2.31	mg/kg		2.31	SW846-6020
Iron	*	1900	mg/kg		18.5	SW846-6010B
Lead		2.55	mg/kg		0.926	SW846-6020
Magnesium		164	mg/kg		4.63	SW846-6010B
Manganese	N	20.4	mg/kg		2.31	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel	UX	4.63	mg/kg		4.63	SW846-6010B
Selenium	U	0.926	mg/kg		0.926	SW846-6020
Silver	U	2.31	mg/kg		2.31	SW846-6010B
Sodium	UX	92.6	mg/kg		92.6	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	U	0.926	mg/kg		0.926	SW846-6020
Vanadium	UX	2.31	mg/kg		2.31	SW846-6010B
Zinc	UX	18.5	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00923	pCi/g	0.0093	0.0375	RL-7128
Alpha activity	U	0.701	pCi/g	0.443	1.06	RL-7111
Americium-241	U	-0.0028	pCi/g	0.0043	0.0293	RL-7128
Beta activity	U	0.902	pCi/g	0.217	1.13	RL-7111
Cesium-137	U	-0.0094	pCi/g	0.0188	0.0092	RL-7124
Cobalt-60	U	-0.0007	pCi/g	0.0013	0.0090	RL-7124
Neptunium-237	U	-0.0046	pCi/g	0.0076	0.0428	RL-7128
Plutonium-238	U	-0.0006	pCi/g	0.0031	0.0161	RL-7128
Plutonium-239/240	U	-9E-05	pCi/g	0	0.0159	RL-7128
Technetium-99	U	0.032	pCi/g	1.19	1.74	RL-7100
Thorium-228		0.207	pCi/g	0.0455	0.0842	RL-7128
Thorium-230	U	0.0815	pCi/g	0.0378	0.24	RL-7128
Thorium-232		0.22	pCi/g	0.0439	0.168	RL-7128
Thorium-234		0.578	pCi/g	0.134	0.144	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.0608	pCi/g	0.0578	0.302	RL-7128
Uranium-234	U	0.04	pCi/g	0.0268	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0116	pCi/g	0.0224	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	570	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JX	500	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	U	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-001**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB1**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-001

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001WA060

Collected: 3/28/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		52.1	mg/L		0.2	SW846-6010B
Antimony	U	0.005	mg/L		0.005	SW846-6020
Arsenic		0.0106	mg/L		0.01	SW846-6020
Barium		0.16	mg/L		0.005	SW846-6020
Beryllium		0.00166	mg/L		0.001	SW846-6020
Cadmium	U	0.0006	mg/L		0.0006	SW846-6020
Calcium		19.7	mg/L		1	SW846-6010B
Chromium		0.102	mg/L		0.1	SW846-6020
Cobalt	BJ	0.0143	mg/L		0.01	SW846-6020
Copper	UX	0.2	mg/L		0.2	SW846-6020
Iron		59.7	mg/L		0.05	SW846-6010B
Lead		0.0164	mg/L		0.0013	SW846-6020
Magnesium		8.52	mg/L		0.025	SW846-6010B
Manganese		0.6	mg/L		0.05	SW846-6020
Mercury	JNW	0.00014	mg/L		5E-05	SW846-7470A
Molybdenum		0.054	mg/L		0.001	SW846-6020
Nickel		0.0757	mg/L		0.05	SW846-6020
Selenium		0.00708	mg/L		0.005	SW846-6020
Silver	JU	0.001	mg/L		0.001	SW846-6020
Sodium	B	37.4	mg/L		0.5	SW846-6010B
Thallium	BU	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00267	mg/L		0.001	SW846-6020
Vanadium	JUX	0.2	mg/L		0.2	SW846-6020
Zinc		1.54	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00345	mg/L		0.001	SW846-6020
Barium, Dissolved		0.0937	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		18	mg/L		1	SW846-6010B
Chromium, Dissolved	NU	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.00715	mg/L		0.001	SW846-6020
Copper, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	27.7	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		6.53	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.429	mg/L		0.005	SW846-6020
Mercury, Dissolved	JU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0323	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0402	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00675	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved	B	36.3	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		1.12	mg/L		0.2	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

PPCB						
PCB-1016	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	0.0415	pCi/L	0.0256	0.0516	RL-7128
Alpha activity	X	19.9	pCi/L	2.86	2.41	SW846-9310
Americium-241	U	0.0137	pCi/L	0.0145	0.0982	RL-7128
Beta activity		33.5	pCi/L	2.11	2.72	SW846-9310
Cesium-137	UX	0.255	pCi/L	0.51	1.2	RL-7124
Neptunium-237	U	0.017	pCi/L	0.0177	0.0613	RL-7128
Plutonium-238	U	-0.0022	pCi/L	0.0059	0.0411	RL-7128
Plutonium-239/240	U	0.00366	pCi/L	0.0077	0.0454	RL-7128
Radon	X	262	pCi/L	50.8	51.8	RL-7104
Technetium-99		22.7	pCi/L	0.759	0.668	RL-7100
Thorium-228	U	0.0828	pCi/L	0.0418	0.145	RL-7128
Thorium-230	U	0.112	pCi/L	0.0563	0.135	RL-7128
Thorium-232	U	0.0556	pCi/L	0.033	0.0765	RL-7128
Thorium-234	U	-13.1	pCi/L	26.3	20.5	RL-7124
Uranium		2.41	pCi/L	1.52	0.613	RL-7128
Uranium-234	X	0.947	pCi/L	0.105	0.473	RL-7128
Uranium-238		1.42	pCi/L	0.127	0.0886	RL-7128
RADS-D						
Activity of U-235	U	-0.0032	pCi/L	0.0063	0.0478	RL-7128
Uranium-234	UX	0.0232	pCi/L	0.0271	0.473	RL-7128
Uranium-238	U	0.0351	pCi/L	0.0215	0.0881	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270	
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270	
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270	
2,6-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270	
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270	
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270	
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270	
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270	
2-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270	
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270	
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270	
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270	
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270	
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270	

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

4-Chlorobenzamine	U	4.8 ug/L	4.8 SW846-8270
4-Chlorophenyl phenyl ether	U	4.8 ug/L	4.8 SW846-8270
4-Nitrobenzamine	U	4.8 ug/L	4.8 SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8 SW846-8270
Acenaphthene	U	4.8 ug/L	4.8 SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8 SW846-8270
Anthracene	U	4.8 ug/L	4.8 SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8 SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8 SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8 SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8 SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzoic acid		5.6 ug/L	4.8 SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8 SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Chrysene	U	4.8 ug/L	4.8 SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8 SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8 SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8 SW846-8270
Fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Fluorene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorocyclopentadiene	JU	4.8 ug/L	4.8 SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8 SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8 SW846-8270
Isophorone	U	4.8 ug/L	4.8 SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8 SW846-8270
Naphthalene	U	4.8 ug/L	4.8 SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8 SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8 SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8 SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8 SW846-8270
Phenanthrene	U	4.8 ug/L	4.8 SW846-8270
Phenol	JU	4.8 ug/L	4.8 SW846-8270
Pyrene	U	4.8 ug/L	4.8 SW846-8270
Pyridine	U	4.8 ug/L	4.8 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethene	U	5 ug/L	5 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane	U	5 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	JU	10 ug/L	10	SW846-8260
Acrolein	JU	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		11 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SA060

Collected: 3/29/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2370	mg/kg		19.4	SW846-6010B
Antimony	U	9.29	mg/kg		9.29	SW846-6010B
Arsenic	U	0.968	mg/kg		0.968	SW846-6020
Barium		18.1	mg/kg		2.42	SW846-6010B
Beryllium	BUX	0.484	mg/kg		0.484	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium		196	mg/kg		96.8	SW846-6010B
Chromium		8.07	mg/kg		2.42	SW846-6010B
Cobalt	X	3.77	mg/kg		2.42	SW846-6010B
Copper	U	2.42	mg/kg		2.42	SW846-6020
Iron	*	4280	mg/kg		19.4	SW846-6010B
Lead		2.29	mg/kg		0.968	SW846-6020
Magnesium		163	mg/kg		4.84	SW846-6010B
Manganese	N	40	mg/kg		2.42	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	UX	4.84	mg/kg		4.84	SW846-6010B
Selenium	U	0.968	mg/kg		0.968	SW846-6020
Silver	U	2.42	mg/kg		2.42	SW846-6010B
Sodium	UX	96.8	mg/kg		96.8	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.968	mg/kg		0.968	SW846-6020
Vanadium	X	2.53	mg/kg		2.42	SW846-6010B
Zinc	UX	19.4	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

2-Methylnaphthalene	JUX	470	ug/kg	470	SW846-8270
2-Methylphenol	JUX	470	ug/kg	470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg	470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg	470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg	470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg	470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg	470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg	470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg	470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg	470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg	470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg	470	SW846-8270
Acenaphthene	JUX	470	ug/kg	470	SW846-8270
Acenaphthylene	JUX	470	ug/kg	470	SW846-8270
Anthracene	JUX	470	ug/kg	470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg	470	SW846-8270
Benzenemethanol	JUX	470	ug/kg	470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg	470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg	470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg	470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg	470	SW846-8270
Benzoic acid	BJX	570	ug/kg	470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg	470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg	470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg	470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg	470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg	470	SW846-8270
Chrysene	JUX	470	ug/kg	470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg	470	SW846-8270
Dibenzofuran	JUX	470	ug/kg	470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg	470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg	470	SW846-8270
Di-n-butyl phthalate	JUX	470	ug/kg	470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg	470	SW846-8270
Fluoranthene	JUX	470	ug/kg	470	SW846-8270
Fluorene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	JU	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	4.96	ug/kg	4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	U	4.96	ug/kg	4.96	SW846-8260
Acrolein	U	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg	9.93	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260
Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

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12/18/2007

007-001

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007001SD010

Collected: 3/28/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5860	mg/kg		18.5	SW846-6010B
Antimony	U	9.86	mg/kg		9.86	SW846-6010B
Arsenic		3.3	mg/kg		0.924	SW846-6020
Barium		88.8	mg/kg		2.31	SW846-6010B
Beryllium	BUX	0.462	mg/kg		0.462	SW846-6010B
Cadmium	U	1.85	mg/kg		1.85	SW846-6010B
Calcium		487	mg/kg		92.4	SW846-6010B
Chromium		9.29	mg/kg		2.31	SW846-6010B
Cobalt	X	3.02	mg/kg		2.31	SW846-6010B
Copper		5.46	mg/kg		2.31	SW846-6020
Iron	*	7880	mg/kg		18.5	SW846-6010B
Lead		8.79	mg/kg		0.924	SW846-6020
Magnesium		502	mg/kg		4.62	SW846-6010B
Manganese	N	371	mg/kg		2.31	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel	X	5.49	mg/kg		4.62	SW846-6010B
Selenium	U	0.924	mg/kg		0.924	SW846-6020
Silver	U	2.31	mg/kg		2.31	SW846-6010B
Sodium	UX	92.4	mg/kg		92.4	SW846-6010B
Thallium	U	1.85	mg/kg		1.85	SW846-6020
Uranium	U	0.924	mg/kg		0.924	SW846-6020
Vanadium	X	8.26	mg/kg		2.31	SW846-6010B
Zinc	UX	18.5	mg/kg		18.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0137	pCi/g	0.0094	0.0368	RL-7128
Alpha activity		7.16	pCi/g	1.91	1.35	RL-7111
Americium-241	U	-0.0042	pCi/g	0.0033	0.0297	RL-7128
Beta activity		4.31	pCi/g	0.739	1.35	RL-7111
Cesium-137	U	0.00226	pCi/g	0.0045	0.064	RL-7124
Cobalt-60	U	0.0169	pCi/g	0.0338	0.0734	RL-7124
Neptunium-237	U	0.00515	pCi/g	0.006	0.0413	RL-7128
Plutonium-238	U	-0.0004	pCi/g	0.0037	0.016	RL-7128
Plutonium-239/240	U	0.00289	pCi/g	0.0042	0.0167	RL-7128
Technetium-99	U	-0.154	pCi/g	1.31	1.74	RL-7100
Thorium-228		0.4	pCi/g	0.0616	0.0843	RL-7128
Thorium-230		0.374	pCi/g	0.0631	0.24	RL-7128
Thorium-232		0.41	pCi/g	0.0602	0.168	RL-7128
Thorium-234	U	1.15	pCi/g	2.31	1.2	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.143	pCi/g	0.0986	0.3	RL-7128
Uranium-234	U	0.0519	pCi/g	0.0261	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0777	pCi/g	0.0275	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	590	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJX	1400	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	JU	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	4.96	ug/kg	4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	U	4.96	ug/kg	4.96	SW846-8260
Acrolein	U	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg	9.91	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260

007-001**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB1**

Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

Paducah-OREIS Data Report

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002SA010

Collected: 3/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6790	mg/kg		19.1	SW846-6010B
Antimony	U	9.87	mg/kg		9.87	SW846-6010B
Arsenic		2.74	mg/kg		0.954	SW846-6020
Barium		84.5	mg/kg		2.39	SW846-6010B
Beryllium	BUX	0.477	mg/kg		0.477	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium		709	mg/kg		95.4	SW846-6010B
Chromium		9.62	mg/kg		2.39	SW846-6010B
Cobalt	X	3.75	mg/kg		2.39	SW846-6010B
Copper		9.52	mg/kg		2.39	SW846-6020
Iron	*	9160	mg/kg		19.1	SW846-6010B
Lead		7.29	mg/kg		0.954	SW846-6020
Magnesium		857	mg/kg		4.77	SW846-6010B
Manganese	N	181	mg/kg		2.39	SW846-6010B
Mercury		0.018	mg/kg		0.017	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel	X	8.51	mg/kg		4.77	SW846-6010B
Selenium	U	0.954	mg/kg		0.954	SW846-6020
Silver	U	2.39	mg/kg		2.39	SW846-6010B
Sodium	X	156	mg/kg		95.4	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	U	0.954	mg/kg		0.954	SW846-6020
Vanadium	X	4.5	mg/kg		2.39	SW846-6010B
Zinc	X	27.3	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0197	pCi/g	0.021	0.0452	RL-7128
Alpha activity		8.18	pCi/g	2.03	1.3	RL-7111
Americium-241	U	0.00301	pCi/g	0.0079	0.0303	RL-7128
Beta activity		3.45	pCi/g	0.632	1.34	RL-7111
Cesium-137	U	-0.0009	pCi/g	0.0017	0.0607	RL-7124
Cobalt-60	U	0.0163	pCi/g	0.0325	0.0694	RL-7124
Neptunium-237	U	0.0109	pCi/g	0.0134	0.0456	RL-7128
Plutonium-238	U	0.00164	pCi/g	0.0063	0.0169	RL-7128
Plutonium-239/240	U	0.00159	pCi/g	0.0034	0.0169	RL-7128
Technetium-99	U	0.974	pCi/g	1.34	1.74	RL-7100
Thorium-228		0.558	pCi/g	0.0716	0.0851	RL-7128
Thorium-230		0.521	pCi/g	0.0714	0.24	RL-7128
Thorium-232		0.454	pCi/g	0.0641	0.168	RL-7128
Thorium-234	U	2.82	pCi/g	5.63	1.12	RL-7124

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

Uranium	U	0.243	pCi/g	0.263	0.322	RL-7128
Uranium-234	U	0.131	pCi/g	0.0569	0.141	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0926	pCi/g	0.0502	0.136	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	570	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	930	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane		67.7	ug/kg	5.01	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane		149	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	E	378	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	EY	1110	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane		16.3	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	JU	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene		8.97	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-002**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB1**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene		92.6	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene		6.87	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002SA015

Collected: 3/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		7700	mg/kg		20	SW846-6010B
Antimony	U	9.74	mg/kg		9.74	SW846-6010B
Arsenic		6.22	mg/kg		0.999	SW846-6020
Barium		95.5	mg/kg		2.5	SW846-6010B
Beryllium	BUX	0.5	mg/kg		0.5	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		813	mg/kg		99.9	SW846-6010B
Chromium		11.9	mg/kg		2.5	SW846-6010B
Cobalt	X	6.41	mg/kg		2.5	SW846-6010B
Copper		10.7	mg/kg		2.5	SW846-6020
Iron	*	11900	mg/kg		20	SW846-6010B
Lead		15.3	mg/kg		0.999	SW846-6020
Magnesium		1100	mg/kg		5	SW846-6010B
Manganese	N	256	mg/kg		2.5	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel	X	11.4	mg/kg		5	SW846-6010B
Selenium	U	0.999	mg/kg		0.999	SW846-6020
Silver	U	2.5	mg/kg		2.5	SW846-6010B
Sodium	X	154	mg/kg		99.9	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium	U	0.999	mg/kg		0.999	SW846-6020
Vanadium	X	11.1	mg/kg		2.5	SW846-6010B
Zinc	X	29	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0136	pCi/g	0.0099	0.0366	RL-7128
Alpha activity		7.43	pCi/g	1.89	1.26	RL-7111
Americium-241	U	-0.0051	pCi/g	0.0014	0.0298	RL-7128
Beta activity		4.62	pCi/g	0.768	1.32	RL-7111
Cesium-137	U	-0.03	pCi/g	0.0599	0.0445	RL-7124
Cobalt-60	U	-0.0046	pCi/g	0.0091	0.0465	RL-7124
Neptunium-237	U	0.0037	pCi/g	0.0091	0.0402	RL-7128
Plutonium-238	U	-0.0007	pCi/g	0.0030	0.0161	RL-7128
Plutonium-239/240	U	0.00141	pCi/g	0.0030	0.0162	RL-7128
Technetium-99	U	-0.961	pCi/g	1.28	1.74	RL-7100
Thorium-228		0.371	pCi/g	0.0853	0.0935	RL-7128
Thorium-230		0.375	pCi/g	0.0907	0.248	RL-7128
Thorium-232		0.396	pCi/g	0.0861	0.176	RL-7128
Thorium-234	U	1.75	pCi/g	3.49	0.992	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.264	pCi/g	0.185	0.3	RL-7128
Uranium-234	U	0.133	pCi/g	0.032	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.117	pCi/g	0.0305	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	590	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	930	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane		159	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane		140	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	E	344	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	EY	1660	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane		15	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene		8.53	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-002

BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene		6.2	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene		8.08	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002SA030

Collected: 3/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8320	mg/kg		18.8	SW846-6010B
Antimony	U	9.69	mg/kg		9.69	SW846-6010B
Arsenic		2.5	mg/kg		0.938	SW846-6020
Barium		51.7	mg/kg		2.35	SW846-6010B
Beryllium	BUX	0.469	mg/kg		0.469	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		810	mg/kg		93.8	SW846-6010B
Chromium		12.2	mg/kg		2.35	SW846-6010B
Cobalt	X	4.05	mg/kg		2.35	SW846-6010B
Copper		6.89	mg/kg		2.35	SW846-6020
Iron	*	10500	mg/kg		18.8	SW846-6010B
Lead		7.98	mg/kg		0.938	SW846-6020
Magnesium		780	mg/kg		4.69	SW846-6010B
Manganese	N	25.8	mg/kg		2.35	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	X	6.47	mg/kg		4.69	SW846-6010B
Selenium	U	0.938	mg/kg		0.938	SW846-6020
Silver	U	2.35	mg/kg		2.35	SW846-6010B
Sodium	X	115	mg/kg		93.8	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	U	0.938	mg/kg		0.938	SW846-6020
Vanadium	X	9.6	mg/kg		2.35	SW846-6010B
Zinc	X	27.2	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00289	pCi/g	0.0070	0.038	RL-7128
Alpha activity		5.03	pCi/g	1.54	1.23	RL-7111
Americium-241	U	0.0048	pCi/g	0.0087	0.0305	RL-7128
Beta activity		1.84	pCi/g	0.397	1.31	RL-7111
Cesium-137	U	-0.02	pCi/g	0.04	0.0455	RL-7124
Cobalt-60	U	0.0024	pCi/g	0.0048	0.0446	RL-7124
Neptunium-237	U	4.7E-05	pCi/g	0.0018	0.0439	RL-7128
Plutonium-238	U	-0.0022	pCi/g	0	0.017	RL-7128
Plutonium-239/240	U	-0.0031	pCi/g	0.0042	0.0251	RL-7128
Technetium-99	U	0.00641	pCi/g	0.641	1.74	RL-7100
Thorium-228		0.376	pCi/g	0.0646	0.0861	RL-7128
Thorium-230		0.278	pCi/g	0.0617	0.243	RL-7128
Thorium-232		0.387	pCi/g	0.0641	0.172	RL-7128
Thorium-234	U	1.03	pCi/g	2.06	0.857	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

Uranium	U	0.224	pCi/g	0.387	0.304	RL-7128
Uranium-234		0.14	pCi/g	0.0373	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0812	pCi/g	0.0309	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	590	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	1700	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	UY	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	U	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg	5	SW846-8260
2-Hexanone	U	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	JU	5	ug/kg	5	SW846-8260
Acrolein	U	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	U	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	U	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

007-002**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB1**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002SA045

Collected: 3/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		3350	mg/kg		17.1	SW846-6010B
Antimony	U	9.86	mg/kg		9.86	SW846-6010B
Arsenic	U	0.853	mg/kg		0.853	SW846-6020
Barium		11.4	mg/kg		2.13	SW846-6010B
Beryllium	BUX	0.426	mg/kg		0.426	SW846-6010B
Cadmium	U	1.71	mg/kg		1.71	SW846-6010B
Calcium		555	mg/kg		85.3	SW846-6010B
Chromium		2.64	mg/kg		2.13	SW846-6010B
Cobalt	UX	2.13	mg/kg		2.13	SW846-6010B
Copper		2.25	mg/kg		2.13	SW846-6020
Iron	*	1670	mg/kg		17.1	SW846-6010B
Lead		2.92	mg/kg		0.853	SW846-6020
Magnesium		234	mg/kg		4.26	SW846-6010B
Manganese	N	4.88	mg/kg		2.13	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.13	mg/kg		2.13	SW846-6010B
Nickel	UX	4.26	mg/kg		4.26	SW846-6010B
Selenium	U	0.853	mg/kg		0.853	SW846-6020
Silver	U	2.13	mg/kg		2.13	SW846-6010B
Sodium	UX	85.3	mg/kg		85.3	SW846-6010B
Thallium	U	1.71	mg/kg		1.71	SW846-6020
Uranium	U	0.853	mg/kg		0.853	SW846-6020
Vanadium	UX	2.13	mg/kg		2.13	SW846-6010B
Zinc	UX	17.1	mg/kg		17.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00093	pCi/g	0.0043	0.038	RL-7128
Alpha activity		2.33	pCi/g	0.934	1.07	RL-7111
Americium-241	U	-0.0058	pCi/g	0	0.0302	RL-7128
Beta activity		1.62	pCi/g	0.349	1.15	RL-7111
Cesium-137	U	-0.0168	pCi/g	0.0336	0.037	RL-7124
Cobalt-60	U	-0.006	pCi/g	0.0119	0.0261	RL-7124
Neptunium-237	U	0.00089	pCi/g	0.0034	0.04	RL-7128
Plutonium-238	U	0.00085	pCi/g	0.0043	0.0162	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.0024	0.0163	RL-7128
Technetium-99	U	-0.583	pCi/g	1.3	1.74	RL-7100
Thorium-228		0.176	pCi/g	0.0445	0.0851	RL-7128
Thorium-230	U	0.0691	pCi/g	0.0372	0.24	RL-7128
Thorium-232		0.267	pCi/g	0.0506	0.168	RL-7128
Thorium-234	U	0.336	pCi/g	0.673	0.727	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.0644	pCi/g	0.131	0.303	RL-7128
Uranium-234	U	0.0332	pCi/g	0.026	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0303	pCi/g	0.0252	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	560	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	940	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane		5.38	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	Y	6.49	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	U	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	JU	5.02	ug/kg	5.02	SW846-8260
Acrolein	U	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

007-002**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB1**

Styrene	U	5.02	ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg	5.02	SW846-8260
Toluene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg	5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg	5.02	SW846-8260

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007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002SA060

Collected: 3/27/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4880	mg/kg		17.5	SW846-6010B
Antimony	U	9.98	mg/kg		9.98	SW846-6010B
Arsenic		13.9	mg/kg		0.874	SW846-6020
Barium		38.3	mg/kg		2.19	SW846-6010B
Beryllium	X	1.55	mg/kg		0.437	SW846-6010B
Cadmium	U	1.75	mg/kg		1.75	SW846-6010B
Calcium		573	mg/kg		87.4	SW846-6010B
Chromium		10.5	mg/kg		2.19	SW846-6010B
Cobalt	X	15.5	mg/kg		2.19	SW846-6010B
Copper		9.22	mg/kg		2.19	SW846-6020
Iron	*	34700	mg/kg		17.5	SW846-6010B
Lead		4.02	mg/kg		0.874	SW846-6020
Magnesium		467	mg/kg		4.37	SW846-6010B
Manganese	N	237	mg/kg		2.19	SW846-6010B
Mercury		0.03	mg/kg		0.017	SW846-7471
Molybdenum	U	2.19	mg/kg		2.19	SW846-6010B
Nickel	X	13.3	mg/kg		4.37	SW846-6010B
Selenium	U	0.874	mg/kg		0.874	SW846-6020
Silver	U	2.19	mg/kg		2.19	SW846-6010B
Sodium	UX	87.4	mg/kg		87.4	SW846-6010B
Thallium	U	1.75	mg/kg		1.75	SW846-6020
Uranium	U	0.874	mg/kg		0.874	SW846-6020
Vanadium	X	7.58	mg/kg		2.19	SW846-6010B
Zinc	X	37.1	mg/kg		17.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0029	pCi/g	0.0070	0.0379	RL-7128
Alpha activity		2.86	pCi/g	1.19	1.44	RL-7111
Americium-241	U	-0.0022	pCi/g	0.0051	0.0306	RL-7128
Beta activity		1.84	pCi/g	0.402	1.38	RL-7111
Cesium-137	U	-0.0139	pCi/g	0.0277	0.0493	RL-7124
Cobalt-60	U	0.0155	pCi/g	0.0309	0.0536	RL-7124
Neptunium-237	U	0.00401	pCi/g	0.0097	0.0417	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0015	0.0178	RL-7128
Plutonium-239/240	U	-0.0052	pCi/g	0.0051	0.0181	RL-7128
Technetium-99	U	-0.839	pCi/g	1.29	1.74	RL-7100
Thorium-228		0.288	pCi/g	0.0529	0.0848	RL-7128
Thorium-230	U	0.111	pCi/g	0.0402	0.24	RL-7128
Thorium-232		0.205	pCi/g	0.044	0.168	RL-7128
Thorium-234	U	1.32	pCi/g	2.65	0.915	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Uranium	U	0.103	pCi/g	0.179	0.303	RL-7128
Uranium-234	U	0.0959	pCi/g	0.033	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.00409	pCi/g	0.0226	0.131	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	590	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	Y	5.52	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-002**BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

007002WA060

Collected: 3/27/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		546	mg/L		0.2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.1	mg/L		0.1	SW846-6020
Barium		1.42	mg/L		0.05	SW846-6020
Beryllium		0.0214	mg/L		0.001	SW846-6020
Cadmium	X	0.00275	mg/L		0.0006	SW846-6020
Calcium		37.8	mg/L		1	SW846-6010B
Chromium		1.7	mg/L		1	SW846-6020
Cobalt		0.153	mg/L		0.1	SW846-6020
Copper	NU	2	mg/L		2	SW846-6020
Iron		490	mg/L		0.05	SW846-6010B
Lead		0.218	mg/L		0.013	SW846-6020
Magnesium		27.3	mg/L		0.025	SW846-6010B
Manganese		3.29	mg/L		0.5	SW846-6020
Mercury	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum		0.227	mg/L		0.01	SW846-6020
Nickel	U	0.5	mg/L		0.5	SW846-6020
Selenium	X	0.0128	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		28.5	mg/L		0.5	SW846-6010B
Thallium		0.00569	mg/L		0.002	SW846-6020
Uranium	BJ	0.039	mg/L		0.001	SW846-6020
Vanadium	U	2	mg/L		2	SW846-6020
Zinc		4.23	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00727	mg/L		0.001	SW846-6020
Barium, Dissolved		0.127	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		24.5	mg/L		1	SW846-6010B
Chromium, Dissolved	NU	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.0238	mg/L		0.001	SW846-6020
Copper, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	23.4	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		8.48	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.757	mg/L		0.005	SW846-6020
Mercury, Dissolved	JU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0155	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0329	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0116	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved	B	35.1	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.386	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB1

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.328	pCi/L	0.0786	0.0557	RL-7128
Alpha activity		52.3	pCi/L	4.75	2.88	SW846-9310
Americium-241	U	0.029	pCi/L	0.02	0.0988	RL-7128
Beta activity	X	221	pCi/L	6.33	3.14	SW846-9310
Cesium-137	UX	-0.565	pCi/L	1.13	1.6	RL-7124
Neptunium-237	U	-0.0018	pCi/L	0.0014	0.0729	RL-7128
Plutonium-238	U	-0.0019	pCi/L	0.0064	0.0423	RL-7128
Plutonium-239/240	U	-0.0015	pCi/L	0.0005	0.0487	RL-7128
Technetium-99		175	pCi/L	1.69	0.668	RL-7100
Thorium-228		0.318	pCi/L	0.0744	0.147	RL-7128
Thorium-230	U	0.0853	pCi/L	0.0506	0.141	RL-7128
Thorium-232		0.137	pCi/L	0.0495	0.079	RL-7128
Thorium-234	U	-4.28	pCi/L	8.56	29.4	RL-7124
Uranium		13.8	pCi/L	3.44	0.622	RL-7128
Uranium-234	X	4.98	pCi/L	0.27	0.476	RL-7128
Uranium-238		8.51	pCi/L	0.351	0.0903	RL-7128

RADS-D

Activity of U-235	U	0.00711	pCi/L	0.0101	0.0488	RL-7128
Uranium-234	UX	0.0452	pCi/L	0.0328	0.474	RL-7128
Uranium-238		0.112	pCi/L	0.0383	0.0897	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

4-Chlorophenyl phenyl ether	U	4.8 ug/L	4.8 SW846-8270
4-Nitrobenzenamine	U	4.8 ug/L	4.8 SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8 SW846-8270
Acenaphthene	U	4.8 ug/L	4.8 SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8 SW846-8270
Anthracene	U	4.8 ug/L	4.8 SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8 SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8 SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8 SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8 SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzoic acid		6.2 ug/L	4.8 SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-ethylhexyl)phthalate		7.2 ug/L	4.8 SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Chrysene	U	4.8 ug/L	4.8 SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8 SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8 SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-octylphthalate	UX	4.8 ug/L	4.8 SW846-8270
Fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Fluorene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorocyclopentadiene	JU	4.8 ug/L	4.8 SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8 SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8 SW846-8270
Isophorone	U	4.8 ug/L	4.8 SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8 SW846-8270
Naphthalene	U	4.8 ug/L	4.8 SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8 SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8 SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8 SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8 SW846-8270
Phenanthrene	U	4.8 ug/L	4.8 SW846-8270
Phenol	JU	4.8 ug/L	4.8 SW846-8270
Pyrene	U	4.8 ug/L	4.8 SW846-8270
Pyridine	U	4.8 ug/L	4.8 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethene		9.4 ug/L	5 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane	U	5 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260

007-002

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB1

2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	JU	10 ug/L	10	SW846-8260
Acrolein	JU	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	U	1 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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007-003A

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003SA010

Collected: 3/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	8960	mg/kg		19.8	SW846-6010B
Antimony	UX	8.42	mg/kg		8.42	SW846-6010B
Arsenic		2.28	mg/kg		0.991	SW846-6020
Barium		102	mg/kg		2.48	SW846-6010B
Beryllium	U	0.495	mg/kg		0.495	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium		626	mg/kg		99.1	SW846-6010B
Chromium		10.8	mg/kg		2.48	SW846-6010B
Cobalt	X	5.3	mg/kg		2.48	SW846-6010B
Copper		8.61	mg/kg		2.48	SW846-6020
Iron	*	9170	mg/kg		19.8	SW846-6010B
Lead		7.49	mg/kg		0.991	SW846-6020
Magnesium	B	834	mg/kg		4.95	SW846-6010B
Manganese	N	292	mg/kg		2.48	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel		9.39	mg/kg		4.95	SW846-6010B
Selenium	U	0.991	mg/kg		0.991	SW846-6020
Silver	U	2.48	mg/kg		2.48	SW846-6010B
Sodium	X	185	mg/kg		99.1	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	U	0.991	mg/kg		0.991	SW846-6020
Vanadium		10.5	mg/kg		2.48	SW846-6010B
Zinc	X	24.9	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0121	pCi/g	0.0094	0.0375	RL-7128
Alpha activity		6.06	pCi/g	1.83	1.74	RL-7111
Americium-241	U	-0.0083	pCi/g	0.0035	0.03	RL-7128
Beta activity		5.89	pCi/g	0.923	1.87	RL-7111
Cesium-137	U	0.00722	pCi/g	0.0145	0.0642	RL-7124
Cobalt-60	U	-0.0034	pCi/g	0.0068	0.068	RL-7124
Neptunium-237	U	0.00234	pCi/g	0.0063	0.0408	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0041	0.0169	RL-7128
Plutonium-239/240	U	0.00028	pCi/g	0.0007	0.0167	RL-7128
Technetium-99	U	0.283	pCi/g	1.15	1.81	RL-7100
Thorium-228		0.358	pCi/g	0.0586	0.0785	RL-7128
Thorium-230	U	0.227	pCi/g	0.0579	0.237	RL-7128
Thorium-232		0.28	pCi/g	0.0551	0.171	RL-7128
Thorium-234	U	1.63	pCi/g	3.26	1.03	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.292	pCi/g	0.217	0.301	RL-7128
Uranium-234		0.193	pCi/g	0.0385	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0866	pCi/g	0.0298	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	600	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	1800	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	JU	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	U	5	ug/kg	5	SW846-8260
2-Hexanone	JU	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	JU	5	ug/kg	5	SW846-8260
Acrolein	U	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	U	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

007-003A**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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007-003A

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003SA015

Collected: 3/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	8030	mg/kg		18.7	SW846-6010B
Antimony	UX	9.73	mg/kg		9.73	SW846-6010B
Arsenic		1.85	mg/kg		0.935	SW846-6020
Barium		67.1	mg/kg		2.34	SW846-6010B
Beryllium	U	0.467	mg/kg		0.467	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium		992	mg/kg		93.5	SW846-6010B
Chromium		13.1	mg/kg		2.34	SW846-6010B
Cobalt	X	4.56	mg/kg		2.34	SW846-6010B
Copper		6	mg/kg		2.34	SW846-6020
Iron	*	8960	mg/kg		18.7	SW846-6010B
Lead		6.53	mg/kg		0.935	SW846-6020
Magnesium	B	1010	mg/kg		4.67	SW846-6010B
Manganese	N	93.7	mg/kg		2.34	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel		8.94	mg/kg		4.67	SW846-6010B
Selenium	U	0.935	mg/kg		0.935	SW846-6020
Silver	U	2.34	mg/kg		2.34	SW846-6010B
Sodium	X	163	mg/kg		93.5	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.935	mg/kg		0.935	SW846-6020
Vanadium		11.5	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0054	pCi/g	0.0074	0.0376	RL-7128
Alpha activity		3.43	pCi/g	1.16	1.24	RL-7111
Americium-241	U	-0.0055	pCi/g	0.0007	0.0299	RL-7128
Beta activity		2.3	pCi/g	0.449	1.72	RL-7111
Cesium-137	U	-0.0079	pCi/g	0.0157	0.0498	RL-7124
Cobalt-60	U	-0.0178	pCi/g	0.0355	0.0395	RL-7124
Neptunium-237	U	0.00529	pCi/g	0.0061	0.0397	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0.0007	0.0161	RL-7128
Plutonium-239/240	U	0.00059	pCi/g	0.0014	0.0153	RL-7128
Technetium-99	U	-0.0132	pCi/g	1.08	1.81	RL-7100
Thorium-228		0.354	pCi/g	0.0657	0.0809	RL-7128
Thorium-230	U	0.19	pCi/g	0.0624	0.24	RL-7128
Thorium-232		0.217	pCi/g	0.0574	0.174	RL-7128
Thorium-234	U	0.968	pCi/g	1.94	0.883	RL-7124

*QUALIFIER Codes See attached List.

007-003A

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

Uranium	U	0.166	pCi/g	0.192	0.301	RL-7128
Uranium-234	U	0.125	pCi/g	0.0323	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0365	pCi/g	0.0245	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	580	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	1200	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	JU	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	U	4.98	ug/kg	4.98	SW846-8260
2-Hexanone	JU	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	U	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-003A**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB2**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-003A

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003SA030

Collected: 3/19/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4960	mg/kg		19.3	SW846-6010B
Antimony	UX	9.05	mg/kg		9.05	SW846-6010B
Arsenic		1.18	mg/kg		0.966	SW846-6020
Barium		13.8	mg/kg		2.42	SW846-6010B
Beryllium	U	0.483	mg/kg		0.483	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium		610	mg/kg		96.6	SW846-6010B
Chromium		5.63	mg/kg		2.42	SW846-6010B
Cobalt	UX	2.42	mg/kg		2.42	SW846-6010B
Copper		2.45	mg/kg		2.42	SW846-6020
Iron	*	7820	mg/kg		19.3	SW846-6010B
Lead		4.65	mg/kg		0.966	SW846-6020
Magnesium	B	293	mg/kg		4.83	SW846-6010B
Manganese	N	104	mg/kg		2.42	SW846-6010B
Mercury	U	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	U	4.83	mg/kg		4.83	SW846-6010B
Selenium	U	0.966	mg/kg		0.966	SW846-6020
Silver	U	2.42	mg/kg		2.42	SW846-6010B
Sodium	UX	96.6	mg/kg		96.6	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium	U	0.966	mg/kg		0.966	SW846-6020
Vanadium		9.23	mg/kg		2.42	SW846-6010B
Zinc	UX	19.3	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0111	pCi/g	0.0102	0.0377	RL-7128
Alpha activity		2.39	pCi/g	0.904	1.17	RL-7111
Americium-241	U	-0.0055	pCi/g	0.0007	0.0298	RL-7128
Beta activity		3.82	pCi/g	0.653	1.64	RL-7111
Cesium-137	U	-0.013	pCi/g	0.0261	0.047	RL-7124
Cobalt-60	U	-0.0096	pCi/g	0.0193	0.0415	RL-7124
Neptunium-237	U	-0.001	pCi/g	0.0003	0.0397	RL-7128
Plutonium-238	U	-0.0022	pCi/g	0	0.0167	RL-7128
Plutonium-239/240	U	0.00506	pCi/g	0.0069	0.0169	RL-7128
Technetium-99	U	0.191	pCi/g	1.15	1.81	RL-7100
Thorium-228		0.247	pCi/g	0.0482	0.078	RL-7128
Thorium-230	U	0.0513	pCi/g	0.0411	0.236	RL-7128
Thorium-232		0.213	pCi/g	0.0477	0.171	RL-7128
Thorium-234	U	1.42	pCi/g	2.83	0.896	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.21	pCi/g	0.185	0.302	RL-7128
Uranium-234		0.18	pCi/g	0.0391	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0192	pCi/g	0.0243	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	560	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	JU	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg	4.99	SW846-8260
2-Hexanone	JU	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	U	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

007-003A

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003SA045

Collected: 3/20/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	3190	mg/kg		19.1	SW846-6010B
Antimony	UX	9.03	mg/kg		9.03	SW846-6010B
Arsenic		1.24	mg/kg		0.953	SW846-6020
Barium		11.2	mg/kg		2.38	SW846-6010B
Beryllium	U	0.477	mg/kg		0.477	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium		372	mg/kg		95.3	SW846-6010B
Chromium		8.31	mg/kg		2.38	SW846-6010B
Cobalt	UX	2.38	mg/kg		2.38	SW846-6010B
Copper	U	2.38	mg/kg		2.38	SW846-6020
Iron	*	5650	mg/kg		19.1	SW846-6010B
Lead		2.69	mg/kg		0.953	SW846-6020
Magnesium	B	161	mg/kg		4.77	SW846-6010B
Manganese	N	27.2	mg/kg		2.38	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.38	mg/kg		2.38	SW846-6010B
Nickel	U	4.77	mg/kg		4.77	SW846-6010B
Selenium	U	0.953	mg/kg		0.953	SW846-6020
Silver	U	2.38	mg/kg		2.38	SW846-6010B
Sodium	UX	95.3	mg/kg		95.3	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	U	0.953	mg/kg		0.953	SW846-6020
Vanadium		8.72	mg/kg		2.38	SW846-6010B
Zinc	UX	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0163	pCi/g	0.0141	0.0386	RL-7128
Alpha activity		2.82	pCi/g	1.03	1.19	RL-7111
Americium-241	U	-3E-05	pCi/g	0.0083	0.0298	RL-7128
Beta activity	U	0.667	pCi/g	0.154	1.67	RL-7111
Cesium-137	U	-0.0146	pCi/g	0.0291	0.0269	RL-7124
Cobalt-60	U	-0.009	pCi/g	0.018	0.0223	RL-7124
Neptunium-237	U	-0.0076	pCi/g	0.0085	0.0428	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0.0007	0.0168	RL-7128
Plutonium-239/240	U	-0.0026	pCi/g	0.0035	0.0171	RL-7128
Technetium-99	U	0.198	pCi/g	1.16	1.81	RL-7100
Thorium-228		0.112	pCi/g	0.0378	0.0784	RL-7128
Thorium-230	U	-0.004	pCi/g	0.0391	0.238	RL-7128
Thorium-232	U	0.13	pCi/g	0.0433	0.172	RL-7128
Thorium-234	U	0.89	pCi/g	1.78	0.687	RL-7124

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.318	pCi/g	0.267	0.304	RL-7128
Uranium-234		0.201	pCi/g	0.0427	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.101	pCi/g	0.0334	0.131	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	590	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	U	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003WA060

Collected: 3/20/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		27.3	mg/L		0.2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic		0.119	mg/L		0.01	SW846-6020
Barium		0.188	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	X	0.00082	mg/L		0.0006	SW846-6020
Calcium		33.1	mg/L		1	SW846-6010B
Chromium	U	0.1	mg/L		0.1	SW846-6020
Cobalt		0.0143	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		40.2	mg/L		0.05	SW846-6010B
Lead		0.00638	mg/L		0.0013	SW846-6020
Magnesium		12.3	mg/L		0.025	SW846-6010B
Manganese		0.804	mg/L		0.05	SW846-6020
Mercury	JNW	1.3E-05	mg/L		1E-05	SW846-7470A
Molybdenum		0.0676	mg/L		0.001	SW846-6020
Nickel		0.0603	mg/L		0.05	SW846-6020
Selenium	X	0.0104	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		48.3	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	BJ	0.00137	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc		0.529	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.0986	mg/L		0.001	SW846-6020
Barium, Dissolved		0.122	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		34.2	mg/L		1	SW846-6010B
Chromium, Dissolved	NU	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.0124	mg/L		0.001	SW846-6020
Copper, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	16.8	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.3	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.686	mg/L		0.005	SW846-6020
Mercury, Dissolved	JU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0471	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0498	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00619	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved	B	46.9	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.414	mg/L		0.02	SW846-6020

007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

PPCB						
PCB-1016	U	0.1	ug/L	0.1	SW846-8082	
PCB-1221	U	0.1	ug/L	0.1	SW846-8082	
PCB-1232	U	0.1	ug/L	0.1	SW846-8082	
PCB-1242	U	0.1	ug/L	0.1	SW846-8082	
PCB-1248	U	0.1	ug/L	0.1	SW846-8082	
PCB-1254	U	0.1	ug/L	0.1	SW846-8082	
PCB-1260	U	0.1	ug/L	0.1	SW846-8082	
PCB-1268	U	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	-0.0007	pCi/L	0.0002	0.0516	RL-7128
Alpha activity	X	5.25	pCi/L	1.2	3.37	SW846-9310
Americium-241	U	-0.0009	pCi/L	0.0066	0.0995	RL-7128
Beta activity	X	7.91	pCi/L	0.676	4.87	SW846-9310
Cesium-137	U	-0.29	pCi/L	0.58	1.48	RL-7124
Neptunium-237	U	0.00314	pCi/L	0.011	0.0666	RL-7128
Plutonium-238	U	-0.0023	pCi/L	0.0055	0.0421	RL-7128
Plutonium-239/240	U	0.012	pCi/L	0.0123	0.0467	RL-7128
Technetium-99	U	0.547	pCi/L	0.5	0.689	RL-7100
Thorium-228	U	0.0731	pCi/L	0.0373	0.145	RL-7128
Thorium-230	U	0.0141	pCi/L	0.0335	0.131	RL-7128
Thorium-232	U	0.0286	pCi/L	0.027	0.0766	RL-7128
Thorium-234	U	-2.1	pCi/L	4.2	26.5	RL-7124
Uranium	U	0.259	pCi/L	0.53	0.62	RL-7128
Uranium-234	UX	0.142	pCi/L	0.0448	0.474	RL-7128
Uranium-238		0.119	pCi/L	0.0395	0.0947	RL-7128
RADS-D						
Activity of U-235	U	-0.0073	pCi/L	0.0129	0.0499	RL-7128
Uranium-234	UX	0.0384	pCi/L	0.0328	0.474	RL-7128
Uranium-238	U	0.0945	pCi/L	0.0359	0.0987	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270	
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270	
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270	
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270	
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270	

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

4-Chlorophenyl phenyl ether	U	4.7 ug/L	4.7 SW846-8270
4-Nitrobenzenamine	U	4.7 ug/L	4.7 SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7 SW846-8270
Acenaphthene	U	4.7 ug/L	4.7 SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7 SW846-8270
Anthracene	U	4.7 ug/L	4.7 SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7 SW846-8270
Benzenemethanol	JU	4.7 ug/L	4.7 SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7 SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzo(ghi)perylene	JU	4.7 ug/L	4.7 SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzoic acid	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.7 ug/L	4.7 SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Chrysene	U	4.7 ug/L	4.7 SW846-8270
Dibenz(a,h)anthracene	JU	4.7 ug/L	4.7 SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7 SW846-8270
Diethyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Di-n-butyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7 SW846-8270
Fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Fluorene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorocyclopentadiene	JU	4.7 ug/L	4.7 SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7 SW846-8270
Indeno(1,2,3-cd)pyrene	JU	4.7 ug/L	4.7 SW846-8270
Isophorone	U	4.7 ug/L	4.7 SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7 SW846-8270
Naphthalene	U	4.7 ug/L	4.7 SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7 SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7 SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7 SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7 SW846-8270
Phenanthrene	U	4.7 ug/L	4.7 SW846-8270
Phenol	JU	4.7 ug/L	4.7 SW846-8270
Pyrene	U	4.7 ug/L	4.7 SW846-8270
Pyridine	U	4.7 ug/L	4.7 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethene	U	5 ug/L	5 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane	U	5 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260

007-003B**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB2**

2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	JU	10 ug/L	10	SW846-8260
Acrolein	JU	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		6.1 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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007-003B

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007003SA060

Collected: 3/21/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	7860	mg/kg		19.4	SW846-6010B
Antimony	UX	9.24	mg/kg		9.24	SW846-6010B
Arsenic		5.19	mg/kg		0.972	SW846-6020
Barium		53.8	mg/kg		2.43	SW846-6010B
Beryllium		1	mg/kg		0.486	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium		1120	mg/kg		97.2	SW846-6010B
Chromium		11.3	mg/kg		2.43	SW846-6010B
Cobalt	UX	2.43	mg/kg		2.43	SW846-6010B
Copper		11.4	mg/kg		2.43	SW846-6020
Iron	*	20500	mg/kg		19.4	SW846-6010B
Lead		6.66	mg/kg		0.972	SW846-6020
Magnesium	B	1130	mg/kg		4.86	SW846-6010B
Manganese	N	88.2	mg/kg		2.43	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel		14.6	mg/kg		4.86	SW846-6010B
Selenium	U	0.972	mg/kg		0.972	SW846-6020
Silver	U	2.43	mg/kg		2.43	SW846-6010B
Sodium	UX	97.2	mg/kg		97.2	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.972	mg/kg		0.972	SW846-6020
Vanadium		9.8	mg/kg		2.43	SW846-6010B
Zinc	X	53.9	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00911	pCi/g	0.0092	0.0373	RL-7128
Alpha activity		10.9	pCi/g	2.53	1.72	RL-7111
Americium-241	U	-0.0026	pCi/g	0.0045	0.0301	RL-7128
Beta activity		5.36	pCi/g	0.864	1.87	RL-7111
Cesium-137	U	-0.0167	pCi/g	0.0335	0.0481	RL-7124
Cobalt-60	U	-0.0112	pCi/g	0.0224	0.0417	RL-7124
Neptunium-237	U	0.00681	pCi/g	0.0101	0.0428	RL-7128
Plutonium-238	U	-0.0015	pCi/g	0.0014	0.0166	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.0024	0.0169	RL-7128
Technetium-99	U	-0.224	pCi/g	1.18	1.81	RL-7100
Thorium-228		0.579	pCi/g	0.0688	0.0778	RL-7128
Thorium-230	U	0.223	pCi/g	0.0543	0.236	RL-7128
Thorium-232		0.522	pCi/g	0.0668	0.171	RL-7128
Thorium-234	U	2.05	pCi/g	4.1	0.957	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.43	pCi/g	0.392	0.301	RL-7128
Uranium-234		0.326	pCi/g	0.0472	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0953	pCi/g	0.0309	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	570	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	JU	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	JU	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-003B**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB2**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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007-004

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007004SA010

Collected: 3/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	8110	mg/kg		19.5	SW846-6010B
Antimony	UX	9.16	mg/kg		9.16	SW846-6010B
Arsenic		2.18	mg/kg		0.974	SW846-6020
Barium		65.6	mg/kg		2.44	SW846-6010B
Beryllium	U	0.487	mg/kg		0.487	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium		362	mg/kg		97.4	SW846-6010B
Chromium		9.21	mg/kg		2.44	SW846-6010B
Cobalt	X	2.97	mg/kg		2.44	SW846-6010B
Copper		7.27	mg/kg		2.44	SW846-6020
Iron	*	8440	mg/kg		19.5	SW846-6010B
Lead		6.28	mg/kg		0.974	SW846-6020
Magnesium	B	653	mg/kg		4.87	SW846-6010B
Manganese	N	205	mg/kg		2.44	SW846-6010B
Mercury		0.036	mg/kg		0.018	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel		6.49	mg/kg		4.87	SW846-6010B
Selenium	U	0.974	mg/kg		0.974	SW846-6020
Silver	U	2.44	mg/kg		2.44	SW846-6010B
Sodium	X	145	mg/kg		97.4	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	U	0.974	mg/kg		0.974	SW846-6020
Vanadium		6.68	mg/kg		2.44	SW846-6010B
Zinc	X	20.1	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0104	pCi/g	0.0087	0.0371	RL-7128
Alpha activity		8.21	pCi/g	2.05	1.53	RL-7111
Americium-241	U	-0.0054	pCi/g	0.0008	0.0306	RL-7128
Beta activity		5.35	pCi/g	0.857	1.83	RL-7111
Cesium-137	U	-0.0347	pCi/g	0.0693	0.0469	RL-7124
Cobalt-60	U	0.00805	pCi/g	0.0161	0.0584	RL-7124
Neptunium-237	U	-0.0015	pCi/g	0.0013	0.0448	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0.0007	0.0164	RL-7128
Plutonium-239/240	U	0.0153	pCi/g	0.0097	0.0164	RL-7128
Technetium-99	U	-0.112	pCi/g	1.14	1.81	RL-7100
Thorium-228		0.337	pCi/g	0.0583	0.0788	RL-7128
Thorium-230	U	0.23	pCi/g	0.0587	0.238	RL-7128
Thorium-232		0.32	pCi/g	0.0591	0.172	RL-7128
Thorium-234	U	1.69	pCi/g	3.37	1.1	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.564	pCi/g	0.435	0.3	RL-7128
Uranium-234		0.219	pCi/g	0.037	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.335	pCi/g	0.0433	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Chlorophenol	JUX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Methylphenol	JUX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
2-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	JUX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	JUX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
Acenaphthene	JUX	500	ug/kg		500	SW846-8270
Acenaphthylene	JUX	500	ug/kg		500	SW846-8270
Anthracene	JUX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	JUX	500	ug/kg		500	SW846-8270
Benzenemethanol	JUX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	JUX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	JUX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzoic acid	BJX	600	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	JUX	500	ug/kg		500	SW846-8270
Chrysene	JUX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	JUX	500	ug/kg		500	SW846-8270
Dibenzofuran	JUX	500	ug/kg		500	SW846-8270
Diethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	BJX	1100	ug/kg		500	SW846-8270
Di-n-octylphthalate	JUX	500	ug/kg		500	SW846-8270
Fluoranthene	JUX	500	ug/kg		500	SW846-8270
Fluorene	JUX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	JUX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	JUX	500	ug/kg	500	SW846-8270
Hexachloroethane	JUX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	500	ug/kg	500	SW846-8270
Isophorone	JUX	500	ug/kg	500	SW846-8270
m,p-Cresol	JUX	500	ug/kg	500	SW846-8270
Naphthalene	JUX	500	ug/kg	500	SW846-8270
Nitrobenzene	JUX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	JUX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	JUX	500	ug/kg	500	SW846-8270
Pentachlorophenol	JUX	500	ug/kg	500	SW846-8270
Phenanthrene	JUX	500	ug/kg	500	SW846-8270
Phenol	JUX	500	ug/kg	500	SW846-8270
Pyrene	JUX	500	ug/kg	500	SW846-8270
Pyridine	JUX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	UY	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	U	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	4.96	ug/kg	4.96	SW846-8260
2-Hexanone	U	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	JU	4.96	ug/kg	4.96	SW846-8260
Acrolein	U	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg	9.93	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-004

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007004SA015

Collected: 3/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5880	mg/kg		18.4	SW846-6010B
Antimony	UX	8.88	mg/kg		8.88	SW846-6010B
Arsenic		1.75	mg/kg		0.92	SW846-6020
Barium		82.4	mg/kg		2.3	SW846-6010B
Beryllium	U	0.46	mg/kg		0.46	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium		923	mg/kg		92	SW846-6010B
Chromium		9.88	mg/kg		2.3	SW846-6010B
Cobalt	UX	2.3	mg/kg		2.3	SW846-6010B
Copper		7.1	mg/kg		2.3	SW846-6020
Iron	*	8260	mg/kg		18.4	SW846-6010B
Lead		5.17	mg/kg		0.92	SW846-6020
Magnesium	B	1070	mg/kg		4.6	SW846-6010B
Manganese	N	80.2	mg/kg		2.3	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		8.24	mg/kg		4.6	SW846-6010B
Selenium	U	0.92	mg/kg		0.92	SW846-6020
Silver	U	2.3	mg/kg		2.3	SW846-6010B
Sodium	X	212	mg/kg		92	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	U	0.92	mg/kg		0.92	SW846-6020
Vanadium		6.67	mg/kg		2.3	SW846-6010B
Zinc	UX	18.4	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00871	pCi/g	0.0081	0.0374	RL-7128
Alpha activity		5.76	pCi/g	1.6	1.37	RL-7111
Americium-241	U	-0.0054	pCi/g	0.0008	0.031	RL-7128
Beta activity		6.11	pCi/g	0.931	1.78	RL-7111
Cesium-137	U	-0.0139	pCi/g	0.0277	0.05	RL-7124
Cobalt-60	U	0.00329	pCi/g	0.0066	0.0581	RL-7124
Neptunium-237	U	-0.0002	pCi/g	0.0012	0.0419	RL-7128
Plutonium-238	U	-0.0035	pCi/g	0.0025	0.0164	RL-7128
Plutonium-239/240	U	0.00808	pCi/g	0.0073	0.0164	RL-7128
Technetium-99	U	0.448	pCi/g	1.17	1.81	RL-7100
Thorium-228		0.32	pCi/g	0.0566	0.0788	RL-7128
Thorium-230	U	0.146	pCi/g	0.0532	0.237	RL-7128
Thorium-232		0.271	pCi/g	0.0548	0.172	RL-7128
Thorium-234	U	1.1	pCi/g	2.2	0.952	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.173	pCi/g	0.148	0.301	RL-7128
Uranium-234	U	0.112	pCi/g	0.032	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0523	pCi/g	0.0261	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	600	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	770	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	UY	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg	4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	U	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-004**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB2**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007004SA030

Collected: 3/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	3460	mg/kg		20	SW846-6010B
Antimony	UX	9.18	mg/kg		9.18	SW846-6010B
Arsenic		4.57	mg/kg		0.998	SW846-6020
Barium		22.2	mg/kg		2.5	SW846-6010B
Beryllium	U	0.499	mg/kg		0.499	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		376	mg/kg		99.8	SW846-6010B
Chromium		32.8	mg/kg		2.5	SW846-6010B
Cobalt	X	5.26	mg/kg		2.5	SW846-6010B
Copper		3.37	mg/kg		2.5	SW846-6020
Iron	*	17600	mg/kg		20	SW846-6010B
Lead		5.14	mg/kg		0.998	SW846-6020
Magnesium	B	205	mg/kg		4.99	SW846-6010B
Manganese	N	212	mg/kg		2.5	SW846-6010B
Mercury	U	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel	U	4.99	mg/kg		4.99	SW846-6010B
Selenium	U	0.998	mg/kg		0.998	SW846-6020
Silver	U	2.5	mg/kg		2.5	SW846-6010B
Sodium	UX	99.8	mg/kg		99.8	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium		1.45	mg/kg		0.998	SW846-6020
Vanadium		29.7	mg/kg		2.5	SW846-6010B
Zinc	UX	20	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00821	pCi/g	0.0104	0.0375	RL-7128
Alpha activity		2.34	pCi/g	0.917	1.22	RL-7111
Americium-241	U	-0.0025	pCi/g	0.0047	0.0301	RL-7128
Beta activity		2.71	pCi/g	0.51	1.71	RL-7111
Cesium-137	U	-0.0018	pCi/g	0.0037	0.0395	RL-7124
Cobalt-60	U	0.00068	pCi/g	0.0014	0.0323	RL-7124
Neptunium-237	U	0.00075	pCi/g	0.0032	0.0417	RL-7128
Plutonium-238	U	-0.0007	pCi/g	0.0031	0.0165	RL-7128
Plutonium-239/240	U	-0.003	pCi/g	0.0057	0.0169	RL-7128
Technetium-99	U	-0.762	pCi/g	1.16	1.83	RL-7100
Thorium-228		0.163	pCi/g	0.0498	0.0815	RL-7128
Thorium-230	U	0.0193	pCi/g	0.0473	0.239	RL-7128
Thorium-232	U	0.0729	pCi/g	0.0419	0.174	RL-7128
Thorium-234	U	1.24	pCi/g	2.47	0.797	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.766	pCi/g	0.853	0.301	RL-7128
Uranium-234		0.258	pCi/g	0.0428	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.499	pCi/g	0.0557	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	580	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	UY	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg	4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	U	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-004

BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-004

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007004SA045

Collected: 3/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5350	mg/kg		18.4	SW846-6010B
Antimony	U	10	mg/kg		10	SW846-6010B
Arsenic		1.1	mg/kg		0.922	SW846-6020
Barium		15.3	mg/kg		2.31	SW846-6010B
Beryllium	BUX	0.461	mg/kg		0.461	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium		557	mg/kg		92.2	SW846-6010B
Chromium		6.29	mg/kg		2.31	SW846-6010B
Cobalt	UX	2.31	mg/kg		2.31	SW846-6010B
Copper		3.95	mg/kg		2.31	SW846-6020
Iron	*	10200	mg/kg		18.4	SW846-6010B
Lead		7.04	mg/kg		0.922	SW846-6020
Magnesium		275	mg/kg		4.61	SW846-6010B
Manganese	N	60.7	mg/kg		2.31	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.31	mg/kg		2.31	SW846-6010B
Nickel	UX	4.61	mg/kg		4.61	SW846-6010B
Selenium	U	0.922	mg/kg		0.922	SW846-6020
Silver	U	2.31	mg/kg		2.31	SW846-6010B
Sodium	UX	92.2	mg/kg		92.2	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	U	0.922	mg/kg		0.922	SW846-6020
Vanadium	X	13.5	mg/kg		2.31	SW846-6010B
Zinc	UX	18.4	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0012	pCi/g	0	0.0396	RL-7128
Alpha activity		4.85	pCi/g	1.4	1.23	RL-7111
Americium-241	U	-0.0005	pCi/g	0.0061	0.0321	RL-7128
Beta activity		2.98	pCi/g	0.549	1.71	RL-7111
Cesium-137	U	-0.0239	pCi/g	0.0478	0.0534	RL-7124
Cobalt-60	U	0.001	pCi/g	0.002	0.0506	RL-7124
Neptunium-237	U	-0.001	pCi/g	0.0003	0.0404	RL-7128
Plutonium-238	U	0.00472	pCi/g	0.0077	0.0168	RL-7128
Plutonium-239/240	U	-0.0014	pCi/g	0.0025	0.0164	RL-7128
Technetium-99	U	0.256	pCi/g	1.19	1.83	RL-7100
Thorium-228		0.506	pCi/g	0.0776	0.0805	RL-7128
Thorium-230		0.299	pCi/g	0.0697	0.238	RL-7128
Thorium-232		0.507	pCi/g	0.0782	0.173	RL-7128
Thorium-234	U	1.04	pCi/g	2.07	0.961	RL-7124

*QUALIFIER Codes See attached List.

007-004

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.619	pCi/g	0.171	0.306	RL-7128
Uranium-234		0.395	pCi/g	0.0567	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.225	pCi/g	0.0448	0.131	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	560	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJX	1200	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	UY	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	U	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	JU	5.02	ug/kg	5.02	SW846-8260
Acrolein	U	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

007-004**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB2**

Styrene	U	5.02	ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg	5.02	SW846-8260
Toluene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg	5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg	5.02	SW846-8260

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007-004

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

007004SA060

Collected: 3/26/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8480	mg/kg		18.6	SW846-6010B
Antimony	U	10.3	mg/kg		10.3	SW846-6010B
Arsenic		2.88	mg/kg		0.932	SW846-6020
Barium		51.3	mg/kg		2.33	SW846-6010B
Beryllium	X	0.978	mg/kg		0.466	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium		1220	mg/kg		93.2	SW846-6010B
Chromium		13.9	mg/kg		2.33	SW846-6010B
Cobalt	X	3.69	mg/kg		2.33	SW846-6010B
Copper		11.3	mg/kg		2.33	SW846-6020
Iron	*	19600	mg/kg		18.6	SW846-6010B
Lead		5.45	mg/kg		0.932	SW846-6020
Magnesium		1160	mg/kg		4.66	SW846-6010B
Manganese	N	75.6	mg/kg		2.33	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel	X	14.6	mg/kg		4.66	SW846-6010B
Selenium	U	0.932	mg/kg		0.932	SW846-6020
Silver	U	2.33	mg/kg		2.33	SW846-6010B
Sodium	UX	93.2	mg/kg		93.2	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium		1.23	mg/kg		0.932	SW846-6020
Vanadium	X	3.63	mg/kg		2.33	SW846-6010B
Zinc	X	49.2	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0138	pCi/g	0.0124	0.0375	RL-7128
Alpha activity		8.17	pCi/g	2.16	1.75	RL-7111
Americium-241	U	0.00112	pCi/g	0.0069	0.0302	RL-7128
Beta activity		6.72	pCi/g	1.01	1.88	RL-7111
Cesium-137	U	-0.0267	pCi/g	0.0533	0.0536	RL-7124
Cobalt-60	U	0.0108	pCi/g	0.0217	0.0599	RL-7124
Neptunium-237	U	-0.0046	pCi/g	0.0076	0.0437	RL-7128
Plutonium-238	U	-0.0003	pCi/g	0.0038	0.0162	RL-7128
Plutonium-239/240	U	0.00182	pCi/g	0.0038	0.0168	RL-7128
Technetium-99	U	0.125	pCi/g	1.2	1.83	RL-7100
Thorium-228		0.292	pCi/g	0.0554	0.0788	RL-7128
Thorium-230	U	0.133	pCi/g	0.0512	0.238	RL-7128
Thorium-232		0.317	pCi/g	0.059	0.172	RL-7128
Thorium-234	U	2.83	pCi/g	5.66	1.04	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Uranium	U	0.354	pCi/g	0.303	0.302	RL-7128
Uranium-234		0.219	pCi/g	0.0412	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.121	pCi/g	0.0338	0.13	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	600	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BJX	770	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB2

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	UY	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	4.99	ug/kg	4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	U	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB2

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

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007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005SA010

Collected: 3/12/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8680	mg/kg		19.4	SW846-6010B
Antimony	U	9.53	mg/kg		9.53	SW846-6010B
Arsenic		3.63	mg/kg		0.97	SW846-6020
Barium		86.6	mg/kg		2.42	SW846-6010B
Beryllium	BU	0.485	mg/kg		0.485	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium		672	mg/kg		97	SW846-6010B
Chromium		13	mg/kg		2.42	SW846-6010B
Cobalt		4.7	mg/kg		2.42	SW846-6010B
Copper		9.66	mg/kg		2.42	SW846-6020
Iron		11900	mg/kg		19.4	SW846-6010B
Lead		6.59	mg/kg		0.97	SW846-6020
Magnesium		1520	mg/kg		4.85	SW846-6010B
Manganese		172	mg/kg		2.42	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel		14.1	mg/kg		4.85	SW846-6010B
Selenium	U	0.97	mg/kg		0.97	SW846-6020
Silver	U	2.42	mg/kg		2.42	SW846-6010B
Sodium	X	185	mg/kg		97	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.97	mg/kg		0.97	SW846-6020
Vanadium		7.34	mg/kg		2.42	SW846-6010B
Zinc	X	35.6	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00716	pCi/g	0.0086	0.0381	RL-7128
Alpha activity		3.22	pCi/g	0.786	0.865	SW846-9310
Americium-241	U	-0.0046	pCi/g	0	0.0334	RL-7128
Beta activity		2.68	pCi/g	0.35	1.16	SW846-9310
Cesium-137	U	0.033	pCi/g	0.066	0.059	RL-7124
Cobalt-60	U	0.0279	pCi/g	0.0559	0.063	RL-7124
Neptunium-237	U	0.00513	pCi/g	0.0119	0.0408	RL-7128
Plutonium-238	U	-0.0031	pCi/g	0.0018	0.0171	RL-7128
Plutonium-239/240	U	0.00066	pCi/g	0.0015	0.0166	RL-7128
Technetium-99	U	-0.0764	pCi/g	1.24	1.88	RL-7100
Thorium-228		0.467	pCi/g	0.064	0.086	RL-7128
Thorium-230		0.294	pCi/g	0.058	0.236	RL-7128
Thorium-232		0.365	pCi/g	0.06	0.17	RL-7128
Thorium-234	U	1.35	pCi/g	2.7	1.05	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.253	pCi/g	0.234	0.299	RL-7128
Uranium-234	U	0.123	pCi/g	0.0382	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.123	pCi/g	0.0368	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	U	490	ug/kg		490	SW846-8270
2-Chlorophenol	U	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	U	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	U	490	ug/kg		490	SW846-8270
2-Methylphenol	U	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
2-Nitrophenol	U	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	U	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	U	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	U	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Nitrophenol	U	490	ug/kg		490	SW846-8270
Acenaphthene	U	490	ug/kg		490	SW846-8270
Acenaphthylene	U	490	ug/kg		490	SW846-8270
Anthracene	U	490	ug/kg		490	SW846-8270
Benz(a)anthracene	U	490	ug/kg		490	SW846-8270
Benzenemethanol	U	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	U	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	U	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzoic acid	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	U	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	U	490	ug/kg		490	SW846-8270
Chrysene	U	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	U	490	ug/kg		490	SW846-8270
Dibenzofuran	U	490	ug/kg		490	SW846-8270
Diethyl phthalate	U	490	ug/kg		490	SW846-8270
Dimethyl phthalate	U	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	U	490	ug/kg		490	SW846-8270
Fluoranthene	U	490	ug/kg		490	SW846-8270
Fluorene	U	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	U	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	U	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	U	490	ug/kg	490	SW846-8270
Hexachloroethane	U	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	U	490	ug/kg	490	SW846-8270
Isophorone	U	490	ug/kg	490	SW846-8270
m,p-Cresol	U	490	ug/kg	490	SW846-8270
Naphthalene	U	490	ug/kg	490	SW846-8270
Nitrobenzene	U	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	U	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	U	490	ug/kg	490	SW846-8270
Pentachlorophenol	U	490	ug/kg	490	SW846-8270
Phenanthrene	U	490	ug/kg	490	SW846-8270
Phenol	U	490	ug/kg	490	SW846-8270
Pyrene	U	490	ug/kg	490	SW846-8270
Pyridine	U	490	ug/kg	490	SW846-8270
VOA					
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	JU	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	10	ug/kg	10	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	JU	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-005**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005SA015

Collected: 3/12/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9960	mg/kg		20	SW846-6010B
Antimony	U	8.98	mg/kg		8.98	SW846-6010B
Arsenic		1.1	mg/kg		0.998	SW846-6020
Barium		56.5	mg/kg		2.5	SW846-6010B
Beryllium	BU	0.499	mg/kg		0.499	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		1160	mg/kg		99.8	SW846-6010B
Chromium		13	mg/kg		2.5	SW846-6010B
Cobalt		4	mg/kg		2.5	SW846-6010B
Copper		4.58	mg/kg		2.5	SW846-6020
Iron		9020	mg/kg		20	SW846-6010B
Lead		6.85	mg/kg		0.998	SW846-6020
Magnesium		1010	mg/kg		4.99	SW846-6010B
Manganese		38.1	mg/kg		2.5	SW846-6010B
Mercury		0.016	mg/kg		0.015	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel		5.83	mg/kg		4.99	SW846-6010B
Selenium	U	0.998	mg/kg		0.998	SW846-6020
Silver	U	2.5	mg/kg		2.5	SW846-6010B
Sodium	X	342	mg/kg		99.8	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium	U	0.998	mg/kg		0.998	SW846-6020
Vanadium	U	2.5	mg/kg		2.5	SW846-6010B
Zinc	UX	20	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00399	pCi/g	0.0086	0.0382	RL-7128
Alpha activity		2.15	pCi/g	0.609	0.848	SW846-9310
Americium-241	U	-0.0029	pCi/g	0.0033	0.0297	RL-7128
Beta activity		3.13	pCi/g	0.392	1.16	SW846-9310
Cesium-137	U	0.0151	pCi/g	0.0303	0.0556	RL-7124
Cobalt-60	U	0.00418	pCi/g	0.0084	0.0523	RL-7124
Neptunium-237	U	-0.0073	pCi/g	0.0076	0.0417	RL-7128
Plutonium-238	U	-0.0049	pCi/g	0.0039	0.0173	RL-7128
Plutonium-239/240	U	-0.0007	pCi/g	0.0011	0.0187	RL-7128
Technetium-99	U	1.2	pCi/g	1.23	1.88	RL-7100
Thorium-228		0.46	pCi/g	0.0719	0.0879	RL-7128
Thorium-230	U	0.225	pCi/g	0.0602	0.239	RL-7128
Thorium-232		0.36	pCi/g	0.0666	0.173	RL-7128
Thorium-234	U	0.95	pCi/g	1.9	0.893	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.117	pCi/g	0.159	0.299	RL-7128
Uranium-234	U	0.0679	pCi/g	0.0339	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0452	pCi/g	0.0297	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JU	470	ug/kg		470	SW846-8270
2-Chlorophenol	JU	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JU	470	ug/kg		470	SW846-8270
2-Methylphenol	JU	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
2-Nitrophenol	JU	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JU	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JU	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Nitrophenol	JU	470	ug/kg		470	SW846-8270
Acenaphthene	JU	470	ug/kg		470	SW846-8270
Acenaphthylene	JU	470	ug/kg		470	SW846-8270
Anthracene	JU	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JU	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JU	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JU	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzoic acid	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JU	470	ug/kg		470	SW846-8270
Chrysene	JU	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JU	470	ug/kg		470	SW846-8270
Dibenzofuran	JU	470	ug/kg		470	SW846-8270
Diethyl phthalate	JU	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JU	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJ	720	ug/kg		470	SW846-8270
Di-n-octylphthalate	JU	470	ug/kg		470	SW846-8270
Fluoranthene	JU	470	ug/kg		470	SW846-8270
Fluorene	JU	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JU	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JU	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JU	470	ug/kg	470	SW846-8270
Hexachloroethane	JU	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	470	ug/kg	470	SW846-8270
Isophorone	JU	470	ug/kg	470	SW846-8270
m,p-Cresol	JU	470	ug/kg	470	SW846-8270
Naphthalene	JU	470	ug/kg	470	SW846-8270
Nitrobenzene	JU	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JU	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JU	470	ug/kg	470	SW846-8270
Pentachlorophenol	JU	470	ug/kg	470	SW846-8270
Phenanthrene	JU	470	ug/kg	470	SW846-8270
Phenol	JU	470	ug/kg	470	SW846-8270
Pyrene	JU	470	ug/kg	470	SW846-8270
Pyridine	JU	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	JU	4.96	ug/kg	4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	U	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	9.91	ug/kg	9.91	SW846-8260
2-Hexanone	U	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	JU	4.96	ug/kg	4.96	SW846-8260
Acrolein	JU	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.91	ug/kg	9.91	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005SA030

Collected: 3/13/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5550	mg/kg		17.9	SW846-6010B
Antimony	U	8.73	mg/kg		8.73	SW846-6010B
Arsenic	U	0.895	mg/kg		0.895	SW846-6020
Barium		15.9	mg/kg		2.24	SW846-6010B
Beryllium	BU	0.448	mg/kg		0.448	SW846-6010B
Cadmium	U	1.79	mg/kg		1.79	SW846-6010B
Calcium		740	mg/kg		89.5	SW846-6010B
Chromium		4.54	mg/kg		2.24	SW846-6010B
Cobalt	U	2.24	mg/kg		2.24	SW846-6010B
Copper	U	2.24	mg/kg		2.24	SW846-6020
Iron		3790	mg/kg		17.9	SW846-6010B
Lead		3.76	mg/kg		0.895	SW846-6020
Magnesium		365	mg/kg		4.48	SW846-6010B
Manganese		38.6	mg/kg		2.24	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.24	mg/kg		2.24	SW846-6010B
Nickel	U	4.48	mg/kg		4.48	SW846-6010B
Selenium	U	0.895	mg/kg		0.895	SW846-6020
Silver	U	2.24	mg/kg		2.24	SW846-6010B
Sodium	UX	89.5	mg/kg		89.5	SW846-6010B
Thallium	U	1.79	mg/kg		1.79	SW846-6020
Uranium	U	0.895	mg/kg		0.895	SW846-6020
Vanadium		2.99	mg/kg		2.24	SW846-6010B
Zinc	UX	17.9	mg/kg		17.9	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0165	pCi/g	0.012	0.0376	RL-7128
Alpha activity		2.81	pCi/g	0.714	0.832	SW846-9310
Americium-241	U	-0.0009	pCi/g	0.0062	0.0297	RL-7128
Beta activity		2.65	pCi/g	0.346	1.15	SW846-9310
Cesium-137	U	-0.0026	pCi/g	0.0052	0.0385	RL-7124
Cobalt-60	U	0.00817	pCi/g	0.0163	0.0398	RL-7124
Neptunium-237	U	0.00096	pCi/g	0.0036	0.0402	RL-7128
Plutonium-238	U	0.00414	pCi/g	0.0063	0.0168	RL-7128
Plutonium-239/240	U	0.00149	pCi/g	0.0032	0.0162	RL-7128
Technetium-99	U	0.389	pCi/g	1.21	1.88	RL-7100
Thorium-228		0.391	pCi/g	0.0604	0.0861	RL-7128
Thorium-230	U	0.219	pCi/g	0.0531	0.236	RL-7128
Thorium-232		0.427	pCi/g	0.0646	0.171	RL-7128
Thorium-234	U	1.32	pCi/g	2.64	0.867	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.197	pCi/g	0.134	0.297	RL-7128
Uranium-234	U	0.11	pCi/g	0.0347	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0714	pCi/g	0.0308	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	UX	480	ug/kg		480	SW846-8270
2-Chlorophenol	UX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	UX	480	ug/kg		480	SW846-8270
2-Methylphenol	UX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
2-Nitrophenol	UX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	UX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	UX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Nitrophenol	UX	480	ug/kg		480	SW846-8270
Acenaphthene	UX	480	ug/kg		480	SW846-8270
Acenaphthylene	UX	480	ug/kg		480	SW846-8270
Anthracene	UX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	UX	480	ug/kg		480	SW846-8270
Benzenemethanol	UX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	UX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	UX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzoic acid	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	UX	480	ug/kg		480	SW846-8270
Chrysene	UX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	UX	480	ug/kg		480	SW846-8270
Dibenzofuran	UX	480	ug/kg		480	SW846-8270
Diethyl phthalate	UX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	UX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	UX	480	ug/kg		480	SW846-8270
Fluoranthene	UX	480	ug/kg		480	SW846-8270
Fluorene	UX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	UX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	UX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	UX	480	ug/kg	480	SW846-8270
Hexachloroethane	UX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	480	ug/kg	480	SW846-8270
Isophorone	UX	480	ug/kg	480	SW846-8270
m,p-Cresol	UX	480	ug/kg	480	SW846-8270
Naphthalene	UX	480	ug/kg	480	SW846-8270
Nitrobenzene	UX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	UX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	UX	480	ug/kg	480	SW846-8270
Pentachlorophenol	UX	480	ug/kg	480	SW846-8270
Phenanthrene	UX	480	ug/kg	480	SW846-8270
Phenol	UX	480	ug/kg	480	SW846-8270
Pyrene	UX	480	ug/kg	480	SW846-8270
Pyridine	UX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	JU	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	U	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	10	ug/kg	10	SW846-8260
2-Hexanone	U	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	JU	5	ug/kg	5	SW846-8260
Acrolein	JU	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	U	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

007-005**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	JU	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005SA045

Collected: 3/13/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2380	mg/kg		19.4	SW846-6010B
Antimony	U	9.01	mg/kg		9.01	SW846-6010B
Arsenic	U	0.97	mg/kg		0.97	SW846-6020
Barium		9.31	mg/kg		2.43	SW846-6010B
Beryllium	BU	0.485	mg/kg		0.485	SW846-6010B
Cadmium	U	1.94	mg/kg		1.94	SW846-6010B
Calcium		195	mg/kg		97	SW846-6010B
Chromium		2.79	mg/kg		2.43	SW846-6010B
Cobalt	U	2.43	mg/kg		2.43	SW846-6010B
Copper	U	2.43	mg/kg		2.43	SW846-6020
Iron		2320	mg/kg		19.4	SW846-6010B
Lead		2.26	mg/kg		0.97	SW846-6020
Magnesium		120	mg/kg		4.85	SW846-6010B
Manganese		31.2	mg/kg		2.43	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.43	mg/kg		2.43	SW846-6010B
Nickel	U	4.85	mg/kg		4.85	SW846-6010B
Selenium	U	0.97	mg/kg		0.97	SW846-6020
Silver	U	2.43	mg/kg		2.43	SW846-6010B
Sodium	UX	97	mg/kg		97	SW846-6010B
Thallium	U	1.94	mg/kg		1.94	SW846-6020
Uranium	U	0.97	mg/kg		0.97	SW846-6020
Vanadium		3.64	mg/kg		2.43	SW846-6010B
Zinc	UX	19.4	mg/kg		19.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00010	pCi/g	0.0051	0.0383	RL-7128
Alpha activity		2.03	pCi/g	0.57	0.735	SW846-9310
Americium-241	U	0.00193	pCi/g	0.0073	0.0293	RL-7128
Beta activity	U	0.932	pCi/g	0.145	1.08	SW846-9310
Cesium-137	U	-0.0098	pCi/g	0.0195	0.0318	RL-7124
Cobalt-60	U	0.00298	pCi/g	0.006	0.0338	RL-7124
Neptunium-237	U	-0.0001	pCi/g	0.0015	0.0415	RL-7128
Plutonium-238	U	-0.0006	pCi/g	0.0032	0.0169	RL-7128
Plutonium-239/240	U	0.0015	pCi/g	0.0032	0.0161	RL-7128
Technetium-99	U	-0.347	pCi/g	1.21	1.88	RL-7100
Thorium-228		0.118	pCi/g	0.0366	0.0861	RL-7128
Thorium-230	U	-0.0172	pCi/g	0.0305	0.237	RL-7128
Thorium-232	U	0.0658	pCi/g	0.0347	0.171	RL-7128
Thorium-234	U	0.0394	pCi/g	0.0788	0.632	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	-0.0151	pCi/g	0.0309	0.299	RL-7128
Uranium-234	U	0.0013	pCi/g	0.0276	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0165	pCi/g	0.025	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	UX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	UX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	UX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	UX	500	ug/kg		500	SW846-8270
2-Chlorophenol	UX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	UX	500	ug/kg		500	SW846-8270
2-Methylphenol	UX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
2-Nitrophenol	UX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	UX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	UX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	UX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	UX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Nitrophenol	UX	500	ug/kg		500	SW846-8270
Acenaphthene	UX	500	ug/kg		500	SW846-8270
Acenaphthylene	UX	500	ug/kg		500	SW846-8270
Anthracene	UX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	UX	500	ug/kg		500	SW846-8270
Benzenemethanol	UX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	UX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	UX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	UX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	UX	500	ug/kg		500	SW846-8270
Benzoic acid	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	UX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	UX	500	ug/kg		500	SW846-8270
Chrysene	UX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	UX	500	ug/kg		500	SW846-8270
Dibenzofuran	UX	500	ug/kg		500	SW846-8270
Diethyl phthalate	UX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	UX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	BX	1600	ug/kg		500	SW846-8270
Di-n-octylphthalate	UX	500	ug/kg		500	SW846-8270
Fluoranthene	UX	500	ug/kg		500	SW846-8270
Fluorene	UX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	UX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	UX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	UX	500	ug/kg	500	SW846-8270
Hexachloroethane	UX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	500	ug/kg	500	SW846-8270
Isophorone	UX	500	ug/kg	500	SW846-8270
m,p-Cresol	UX	500	ug/kg	500	SW846-8270
Naphthalene	UX	500	ug/kg	500	SW846-8270
Nitrobenzene	UX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	UX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	UX	500	ug/kg	500	SW846-8270
Pentachlorophenol	UX	500	ug/kg	500	SW846-8270
Phenanthrene	UX	500	ug/kg	500	SW846-8270
Phenol	UX	500	ug/kg	500	SW846-8270
Pyrene	UX	500	ug/kg	500	SW846-8270
Pyridine	UX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	JU	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	JU	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	JU	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	JU	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	JU	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	JU	4.98	ug/kg	4.98	SW846-8260
2-Butanone	JU	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	9.96	ug/kg	9.96	SW846-8260
2-Hexanone	JU	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	JU	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	JU	4.98	ug/kg	4.98	SW846-8260
Benzene	JU	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	JU	4.98	ug/kg	4.98	SW846-8260
Bromoform	JU	4.98	ug/kg	4.98	SW846-8260
Bromomethane	JU	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	JU	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	JU	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	JU	4.98	ug/kg	4.98	SW846-8260
Chloroethane	JU	4.98	ug/kg	4.98	SW846-8260
Chloroform	JU	4.98	ug/kg	4.98	SW846-8260
Chloromethane	JU	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	JU	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	JU	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	JU	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	JU	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	JU	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	JU	4.98	ug/kg	4.98	SW846-8260
Iodomethane	JU	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	JU	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	JU	4.98	ug/kg	4.98	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

Styrene	JU	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	JU	4.98	ug/kg	4.98	SW846-8260
Toluene	JU	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	JU	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	JU	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	JU	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	JU	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	JU	4.98	ug/kg	4.98	SW846-8260

Paducah-OREIS Data Report

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007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005WA060

Collected: 3/13/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		970	mg/L		2	SW846-6010B
Antimony	U	0.005	mg/L		0.005	SW846-6020
Arsenic		0.222	mg/L		0.05	SW846-6020
Barium		2.32	mg/L		0.05	SW846-6020
Beryllium		0.034	mg/L		0.001	SW846-6020
Cadmium		0.00525	mg/L		0.0006	SW846-6020
Calcium		66.7	mg/L		1	SW846-6010B
Chromium		2.43	mg/L		0.5	SW846-6020
Cobalt	J	0.303	mg/L		0.05	SW846-6020
Copper	UX	1	mg/L		1	SW846-6020
Iron		922	mg/L		0.5	SW846-6010B
Lead		0.382	mg/L		0.013	SW846-6020
Magnesium		42.8	mg/L		0.025	SW846-6010B
Manganese		8.73	mg/L		0.25	SW846-6020
Mercury		0.00117	mg/L		0.0002	SW846-7470A
Molybdenum		0.429	mg/L		0.01	SW846-6020
Nickel		0.703	mg/L		0.25	SW846-6020
Selenium	UX	0.05	mg/L		0.05	SW846-6020
Silver	JU	0.001	mg/L		0.001	SW846-6020
Sodium	B	33.8	mg/L		0.5	SW846-6010B
Thallium	B	0.00654	mg/L		0.002	SW846-6020
Uranium	B	0.0475	mg/L		0.001	SW846-6020
Vanadium	J	1.72	mg/L		1	SW846-6020
Zinc		2.93	mg/L		1	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0031	mg/L		0.001	SW846-6020
Barium, Dissolved		0.258	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		40.3	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0238	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		34	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved	X	17.2	mg/L		0.025	SW846-6010B
Manganese, Dissolved		1.71	mg/L		0.05	SW846-6020
Mercury, Dissolved	NU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0363	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0527	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00513	mg/L		0.005	SW846-6020
Silver, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		61.8	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	X	0.0295	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

PPCB						
PCB-1016	U	0.1	ug/L	0.1	SW846-8082	
PCB-1221	U	0.1	ug/L	0.1	SW846-8082	
PCB-1232	U	0.1	ug/L	0.1	SW846-8082	
PCB-1242	U	0.1	ug/L	0.1	SW846-8082	
PCB-1248	U	0.1	ug/L	0.1	SW846-8082	
PCB-1254	U	0.1	ug/L	0.1	SW846-8082	
PCB-1260	U	0.1	ug/L	0.1	SW846-8082	
PCB-1268	U	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235		0.066	pCi/L	0.0349	0.0463	RL-7128
Alpha activity	MX	29.2	pCi/L	3.95	4.77	SW846-9310
Americium-241	U	-0.0052	pCi/L	0.0018	0.106	RL-7128
Beta activity	X	22.1	pCi/L	1.55	5.13	SW846-9310
Cesium-137	U	-0.322	pCi/L	0.643	0.936	RL-7124
Neptunium-237	U	0.0122	pCi/L	0.0129	0.0682	RL-7128
Plutonium-238	U	-0.0025	pCi/L	0.0062	0.0417	RL-7128
Plutonium-239/240	U	-0.0033	pCi/L	0.0053	0.0472	RL-7128
Technetium-99	U	0.527	pCi/L	0.482	0.662	RL-7100
Thorium-228		0.328	pCi/L	0.0728	0.154	RL-7128
Thorium-230		0.151	pCi/L	0.0538	0.112	RL-7128
Thorium-232	U	0.0638	pCi/L	0.0372	0.0733	RL-7128
Thorium-234	U	-3.49	pCi/L	6.97	26	RL-7124
Uranium		4.35	pCi/L	2.21	0.616	RL-7128
Uranium-234	X	2.19	pCi/L	0.165	0.474	RL-7128
Uranium-238		2.1	pCi/L	0.158	0.096	RL-7128
RADS-D						
Activity of U-235	U	0.00316	pCi/L	0.0103	0.049	RL-7128
Uranium-234	UX	0.0147	pCi/L	0.0338	0.473	RL-7128
Uranium-238	U	0.063	pCi/L	0.03	0.0945	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	4.7	ug/L	4.7	SW846-8270	
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270	
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270	
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270	
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270	
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270	

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

4-Chlorophenyl phenyl ether	U	4.7 ug/L	4.7 SW846-8270
4-Nitrobenzenamine	U	4.7 ug/L	4.7 SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7 SW846-8270
Acenaphthene	U	4.7 ug/L	4.7 SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7 SW846-8270
Anthracene	U	4.7 ug/L	4.7 SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7 SW846-8270
Benzenemethanol	U	4.7 ug/L	4.7 SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7 SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzo(ghi)perylene	U	4.7 ug/L	4.7 SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzoic acid	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.7 ug/L	4.7 SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Chrysene	U	4.7 ug/L	4.7 SW846-8270
Dibenz(a,h)anthracene	U	4.7 ug/L	4.7 SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7 SW846-8270
Diethyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Di-n-butyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7 SW846-8270
Fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Fluorene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorocyclopentadiene	U	4.7 ug/L	4.7 SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7 SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.7 ug/L	4.7 SW846-8270
Isophorone	U	4.7 ug/L	4.7 SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7 SW846-8270
Naphthalene	U	4.7 ug/L	4.7 SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7 SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7 SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7 SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7 SW846-8270
Phenanthrene	U	4.7 ug/L	4.7 SW846-8270
Phenol	JU	4.7 ug/L	4.7 SW846-8270
Pyrene	U	4.7 ug/L	4.7 SW846-8270
Pyridine	U	4.7 ug/L	4.7 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethene	U	5 ug/L	5 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane	U	5 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	U	1 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007005SA060

Collected: 3/14/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5670	mg/kg		20	SW846-6010B
Antimony	UX	9.37	mg/kg		9.37	SW846-6010B
Arsenic		1.59	mg/kg		0.998	SW846-6020
Barium		40.1	mg/kg		2.5	SW846-6010B
Beryllium	U	0.499	mg/kg		0.499	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		544	mg/kg		99.8	SW846-6010B
Chromium		6.68	mg/kg		2.5	SW846-6010B
Cobalt	UX	2.5	mg/kg		2.5	SW846-6010B
Copper		4.95	mg/kg		2.5	SW846-6020
Iron	*	11000	mg/kg		20	SW846-6010B
Lead		3.69	mg/kg		0.998	SW846-6020
Magnesium	B	733	mg/kg		4.99	SW846-6010B
Manganese	N	103	mg/kg		2.5	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel		7.32	mg/kg		4.99	SW846-6010B
Selenium	U	0.998	mg/kg		0.998	SW846-6020
Silver	U	2.5	mg/kg		2.5	SW846-6010B
Sodium	UX	99.8	mg/kg		99.8	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium	U	0.998	mg/kg		0.998	SW846-6020
Vanadium		9.6	mg/kg		2.5	SW846-6010B
Zinc	X	28.7	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00217	pCi/g	0.0086	0.0383	RL-7128
Alpha activity		3.36	pCi/g	0.828	0.931	SW846-9310
Americium-241	U	0.00054	pCi/g	0.0082	0.0311	RL-7128
Beta activity		3.22	pCi/g	0.403	1.18	SW846-9310
Cesium-137	U	0.00371	pCi/g	0.0074	0.0502	RL-7124
Cobalt-60	U	-0.0101	pCi/g	0.0201	0.0486	RL-7124
Neptunium-237	U	-0.0015	pCi/g	0.0013	0.0404	RL-7128
Plutonium-238	U	-0.0006	pCi/g	0.0031	0.0166	RL-7128
Plutonium-239/240	U	-9E-05	pCi/g	0	0.0175	RL-7128
Technetium-99	U	-0.174	pCi/g	1.17	1.88	RL-7100
Thorium-228		0.407	pCi/g	0.0599	0.0859	RL-7128
Thorium-230	U	0.144	pCi/g	0.0481	0.237	RL-7128
Thorium-232		0.35	pCi/g	0.0581	0.171	RL-7128
Thorium-234	U	2.03	pCi/g	4.07	0.933	RL-7124

*QUALIFIER Codes See attached List.

007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.163	pCi/g	0.306	0.298	RL-7128
Uranium-234	U	0.119	pCi/g	0.0369	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0423	pCi/g	0.0287	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JU	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JU	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JU	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JU	470	ug/kg		470	SW846-8270
2-Chlorophenol	JU	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JU	470	ug/kg		470	SW846-8270
2-Methylphenol	JU	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
2-Nitrophenol	JU	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JU	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JU	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JU	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JU	470	ug/kg		470	SW846-8270
4-Nitrophenol	JU	470	ug/kg		470	SW846-8270
Acenaphthene	JU	470	ug/kg		470	SW846-8270
Acenaphthylene	JU	470	ug/kg		470	SW846-8270
Anthracene	JU	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JU	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JU	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JU	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JU	470	ug/kg		470	SW846-8270
Benzoic acid	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JU	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JU	470	ug/kg		470	SW846-8270
Chrysene	JU	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JU	470	ug/kg		470	SW846-8270
Dibenzofuran	JU	470	ug/kg		470	SW846-8270
Diethyl phthalate	JU	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JU	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJ	1300	ug/kg		470	SW846-8270
Di-n-octylphthalate	JU	470	ug/kg		470	SW846-8270
Fluoranthene	JU	470	ug/kg		470	SW846-8270
Fluorene	JU	470	ug/kg		470	SW846-8270

007-005

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JU	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JU	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JU	470	ug/kg	470	SW846-8270
Hexachloroethane	JU	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	470	ug/kg	470	SW846-8270
Isophorone	JU	470	ug/kg	470	SW846-8270
m,p-Cresol	JU	470	ug/kg	470	SW846-8270
Naphthalene	JU	470	ug/kg	470	SW846-8270
Nitrobenzene	JU	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JU	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JU	470	ug/kg	470	SW846-8270
Pentachlorophenol	JU	470	ug/kg	470	SW846-8270
Phenanthrene	JU	470	ug/kg	470	SW846-8270
Phenol	JU	470	ug/kg	470	SW846-8270
Pyrene	JU	470	ug/kg	470	SW846-8270
Pyridine	JU	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	9.96	ug/kg	9.96	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	JU	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	U	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	JU	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-005**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB3**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007006SA010

Collected: 3/21/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	9010	mg/kg		19.9	SW846-6010B
Antimony	UX	9.28	mg/kg		9.28	SW846-6010B
Arsenic		4.48	mg/kg		0.993	SW846-6020
Barium		86.4	mg/kg		2.48	SW846-6010B
Beryllium	U	0.497	mg/kg		0.497	SW846-6010B
Cadmium	U	1.99	mg/kg		1.99	SW846-6010B
Calcium		923	mg/kg		99.3	SW846-6010B
Chromium		10.4	mg/kg		2.48	SW846-6010B
Cobalt	X	3.6	mg/kg		2.48	SW846-6010B
Copper		13	mg/kg		2.48	SW846-6020
Iron	*	13700	mg/kg		19.9	SW846-6010B
Lead		7.55	mg/kg		0.993	SW846-6020
Magnesium	B	1390	mg/kg		4.97	SW846-6010B
Manganese	N	192	mg/kg		2.48	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel		12.2	mg/kg		4.97	SW846-6010B
Selenium	U	0.993	mg/kg		0.993	SW846-6020
Silver	U	2.48	mg/kg		2.48	SW846-6010B
Sodium	X	253	mg/kg		99.3	SW846-6010B
Thallium	U	1.99	mg/kg		1.99	SW846-6020
Uranium		1.08	mg/kg		0.993	SW846-6020
Vanadium		4.54	mg/kg		2.48	SW846-6010B
Zinc	X	33.8	mg/kg		19.9	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00928	pCi/g	0.0095	0.0372	RL-7128
Alpha activity		4.76	pCi/g	1.04	1.03	SW846-9310
Americium-241	U	-0.0042	pCi/g	0.0007	0.0299	RL-7128
Beta activity		4.89	pCi/g	0.548	1.21	SW846-9310
Cesium-137	U	0.00212	pCi/g	0.0042	0.0658	RL-7124
Cobalt-60	U	-0.0078	pCi/g	0.0156	0.0488	RL-7124
Neptunium-237	U	0.00838	pCi/g	0.0127	0.0425	RL-7128
Plutonium-238	U	0.00201	pCi/g	0.0078	0.017	RL-7128
Plutonium-239/240	U	0.00201	pCi/g	0.0042	0.0163	RL-7128
Technetium-99	U	1.59	pCi/g	1.24	1.88	RL-7100
Thorium-228		0.528	pCi/g	0.0769	0.0878	RL-7128
Thorium-230		0.471	pCi/g	0.0797	0.238	RL-7128
Thorium-232		0.535	pCi/g	0.0793	0.172	RL-7128
Thorium-234	U	1.48	pCi/g	2.96	0.986	RL-7124

*QUALIFIER Codes See attached List.

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.501	pCi/g	0.417	0.296	RL-7128
Uranium-234		0.212	pCi/g	0.0415	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.28	pCi/g	0.0444	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	600	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	1200	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	JU	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	U	4.99	ug/kg	4.99	SW846-8260
2-Hexanone	JU	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	JU	4.99	ug/kg	4.99	SW846-8260
Acrolein	U	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	U	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.98	ug/kg	9.98	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

007-006**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB3**

Styrene	U	4.99	ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99	ug/kg	4.99	SW846-8260
Toluene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.99	ug/kg	4.99	SW846-8260
Trichloroethene	U	4.99	ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99	ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99	ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99	ug/kg	4.99	SW846-8260

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007006SA015

Collected: 3/21/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	6340	mg/kg		17.4	SW846-6010B
Antimony	UX	9.62	mg/kg		9.62	SW846-6010B
Arsenic		2.44	mg/kg		0.87	SW846-6020
Barium		77.2	mg/kg		2.18	SW846-6010B
Beryllium	U	0.435	mg/kg		0.435	SW846-6010B
Cadmium	U	1.74	mg/kg		1.74	SW846-6010B
Calcium		1030	mg/kg		87	SW846-6010B
Chromium		10.8	mg/kg		2.18	SW846-6010B
Cobalt	X	2.53	mg/kg		2.18	SW846-6010B
Copper		7.12	mg/kg		2.18	SW846-6020
Iron	*	10700	mg/kg		17.4	SW846-6010B
Lead		6.16	mg/kg		0.87	SW846-6020
Magnesium	B	1000	mg/kg		4.35	SW846-6010B
Manganese	N	71.4	mg/kg		2.18	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.18	mg/kg		2.18	SW846-6010B
Nickel		9.67	mg/kg		4.35	SW846-6010B
Selenium	U	0.87	mg/kg		0.87	SW846-6020
Silver	U	2.18	mg/kg		2.18	SW846-6010B
Sodium	X	317	mg/kg		87	SW846-6010B
Thallium	U	1.74	mg/kg		1.74	SW846-6020
Uranium	U	0.87	mg/kg		0.87	SW846-6020
Vanadium		12.3	mg/kg		2.18	SW846-6010B
Zinc	X	17.4	mg/kg		17.4	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0176	pCi/g	0.0116	0.0379	RL-7128
Alpha activity		3.98	pCi/g	0.868	0.824	SW846-9310
Americium-241	U	-0.0035	pCi/g	0.0022	0.03	RL-7128
Beta activity		3.05	pCi/g	0.385	1.15	SW846-9310
Cesium-137	U	0	pCi/g	0	0.0541	RL-7124
Cobalt-60	U	-0.0007	pCi/g	0.0014	0.0563	RL-7124
Neptunium-237	U	0.0104	pCi/g	0.0111	0.0429	RL-7128
Plutonium-238	U	-0.0005	pCi/g	0.0034	0.0171	RL-7128
Plutonium-239/240	U	-0.0010	pCi/g	0.0019	0.0168	RL-7128
Technetium-99	U	-0.514	pCi/g	1.2	1.88	RL-7100
Thorium-228		0.321	pCi/g	0.0526	0.0858	RL-7128
Thorium-230	U	0.209	pCi/g	0.0501	0.236	RL-7128
Thorium-232		0.285	pCi/g	0.0521	0.17	RL-7128
Thorium-234	U	1.65	pCi/g	3.3	0.967	RL-7124

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.239	pCi/g	0.149	0.297	RL-7128
Uranium-234	U	0.129	pCi/g	0.0358	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0917	pCi/g	0.0321	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	600	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	JU	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	U	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	JU	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	JU	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-006**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007006SA030

Collected: 3/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4530	mg/kg		19.3	SW846-6010B
Antimony	UX	10	mg/kg		10	SW846-6010B
Arsenic		1.62	mg/kg		0.967	SW846-6020
Barium		19.2	mg/kg		2.42	SW846-6010B
Beryllium	U	0.484	mg/kg		0.484	SW846-6010B
Cadmium	U	1.93	mg/kg		1.93	SW846-6010B
Calcium		777	mg/kg		96.7	SW846-6010B
Chromium		7.05	mg/kg		2.42	SW846-6010B
Cobalt	UX	2.42	mg/kg		2.42	SW846-6010B
Copper		2.45	mg/kg		2.42	SW846-6020
Iron	*	8440	mg/kg		19.3	SW846-6010B
Lead		7.75	mg/kg		0.967	SW846-6020
Magnesium	B	392	mg/kg		4.84	SW846-6010B
Manganese	N	34.7	mg/kg		2.42	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.42	mg/kg		2.42	SW846-6010B
Nickel	U	4.84	mg/kg		4.84	SW846-6010B
Selenium	U	0.967	mg/kg		0.967	SW846-6020
Silver	U	2.42	mg/kg		2.42	SW846-6010B
Sodium	X	115	mg/kg		96.7	SW846-6010B
Thallium	U	1.93	mg/kg		1.93	SW846-6020
Uranium	U	0.967	mg/kg		0.967	SW846-6020
Vanadium		9.93	mg/kg		2.42	SW846-6010B
Zinc	UX	19.3	mg/kg		19.3	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0129	pCi/g	0.0116	0.0397	RL-7128
Alpha activity		4.21	pCi/g	0.893	0.805	SW846-9310
Americium-241	U	-0.003	pCi/g	0.0032	0.0296	RL-7128
Beta activity		2.1	pCi/g	0.288	1.14	SW846-9310
Cesium-137	U	-0.0036	pCi/g	0.0071	0.0426	RL-7124
Cobalt-60	U	0.00091	pCi/g	0.0018	0.0429	RL-7124
Neptunium-237	U	0.00166	pCi/g	0.005	0.0421	RL-7128
Plutonium-238	U	-0.0033	pCi/g	0.0023	0.0161	RL-7128
Plutonium-239/240	U	0.00058	pCi/g	0.0013	0.0166	RL-7128
Technetium-99	U	-0.0139	pCi/g	2.25	1.88	RL-7100
Thorium-228		0.375	pCi/g	0.0581	0.0859	RL-7128
Thorium-230	U	0.166	pCi/g	0.049	0.236	RL-7128
Thorium-232		0.223	pCi/g	0.0494	0.17	RL-7128
Thorium-234	U	1.09	pCi/g	2.19	0.89	RL-7124

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.229	pCi/g	0.184	0.301	RL-7128
Uranium-234	U	0.108	pCi/g	0.0401	0.132	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.108	pCi/g	0.0381	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	590	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	JU	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	U	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	JU	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	JU	5.03	ug/kg	5.03	SW846-8260
Acrolein	U	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	U	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene		8.41	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	JU	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

007-006**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB3**

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007006SA045

Collected: 3/22/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4180	mg/kg		17	SW846-6010B
Antimony	UX	9.69	mg/kg		9.69	SW846-6010B
Arsenic	U	0.851	mg/kg		0.851	SW846-6020
Barium		23.1	mg/kg		2.13	SW846-6010B
Beryllium	U	0.426	mg/kg		0.426	SW846-6010B
Cadmium	U	1.7	mg/kg		1.7	SW846-6010B
Calcium		629	mg/kg		85.1	SW846-6010B
Chromium		5.05	mg/kg		2.13	SW846-6010B
Cobalt	X	3.99	mg/kg		2.13	SW846-6010B
Copper		2.83	mg/kg		2.13	SW846-6020
Iron	*	3660	mg/kg		17	SW846-6010B
Lead		4.75	mg/kg		0.851	SW846-6020
Magnesium	B	314	mg/kg		4.26	SW846-6010B
Manganese	N	34.7	mg/kg		2.13	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.13	mg/kg		2.13	SW846-6010B
Nickel	U	4.26	mg/kg		4.26	SW846-6010B
Selenium	U	0.851	mg/kg		0.851	SW846-6020
Silver	U	2.13	mg/kg		2.13	SW846-6010B
Sodium	UX	85.1	mg/kg		85.1	SW846-6010B
Thallium	U	1.7	mg/kg		1.7	SW846-6020
Uranium	U	0.851	mg/kg		0.851	SW846-6020
Vanadium		4.43	mg/kg		2.13	SW846-6010B
Zinc	UX	17	mg/kg		17	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

2-Methylnaphthalene	JUX	490	ug/kg	490	SW846-8270
2-Methylphenol	JUX	490	ug/kg	490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg	490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg	490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg	490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg	490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg	490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg	490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg	490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg	490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg	490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg	490	SW846-8270
Acenaphthene	JUX	490	ug/kg	490	SW846-8270
Acenaphthylene	JUX	490	ug/kg	490	SW846-8270
Anthracene	JUX	490	ug/kg	490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg	490	SW846-8270
Benzenemethanol	JUX	490	ug/kg	490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg	490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg	490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg	490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg	490	SW846-8270
Benzoic acid	BJX	600	ug/kg	490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg	490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg	490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg	490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg	490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg	490	SW846-8270
Chrysene	JUX	490	ug/kg	490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg	490	SW846-8270
Dibenzofuran	JUX	490	ug/kg	490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg	490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg	490	SW846-8270
Di-n-butyl phthalate	BJX	690	ug/kg	490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg	490	SW846-8270
Fluoranthene	JUX	490	ug/kg	490	SW846-8270
Fluorene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	JU	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	U	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	JU	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	JU	5.02	ug/kg	5.02	SW846-8260
Acrolein	U	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260
Styrene	U	5.02	ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg	5.02	SW846-8260
Toluene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg	5.02	SW846-8260
Trichloroethene		8.24	ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg	5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg	5.02	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

007006SA060

Collected: 3/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5470	mg/kg		19.6	SW846-6010B
Antimony	UX	9.46	mg/kg		9.46	SW846-6010B
Arsenic		1.9	mg/kg		0.98	SW846-6020
Barium		146	mg/kg		2.45	SW846-6010B
Beryllium		0.588	mg/kg		0.49	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium		1210	mg/kg		98	SW846-6010B
Chromium		5.9	mg/kg		2.45	SW846-6010B
Cobalt	X	17.7	mg/kg		2.45	SW846-6010B
Copper		9.46	mg/kg		2.45	SW846-6020
Iron	*	12600	mg/kg		19.6	SW846-6010B
Lead		6.79	mg/kg		0.98	SW846-6020
Magnesium	B	1240	mg/kg		4.9	SW846-6010B
Manganese	N	628	mg/kg		2.45	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel		12.9	mg/kg		4.9	SW846-6010B
Selenium	U	0.98	mg/kg		0.98	SW846-6020
Silver	U	2.45	mg/kg		2.45	SW846-6010B
Sodium	UX	98	mg/kg		98	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium		0.989	mg/kg		0.98	SW846-6020
Vanadium		5.73	mg/kg		2.45	SW846-6010B
Zinc	X	42.9	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0107	pCi/g	0.0104	0.0375	RL-7128
Alpha activity		6.01	pCi/g	1.18	0.987	SW846-9310
Americium-241	U	0.0248	pCi/g	0.0147	0.0306	RL-7128
Beta activity		4.33	pCi/g	0.502	1.2	SW846-9310
Cesium-137	U	-0.042	pCi/g	0.0839	0.142	RL-7124
Cobalt-60	U	0.0714	pCi/g	0.143	0.203	RL-7124
Neptunium-237	U	0.00156	pCi/g	0.0048	0.042	RL-7128
Plutonium-238	U	0.0011	pCi/g	0.0047	0.0164	RL-7128
Plutonium-239/240	U	0.00028	pCi/g	0.0007	0.0164	RL-7128
Technetium-99	U	-0.292	pCi/g	1.2	1.88	RL-7100
Thorium-228		0.703	pCi/g	0.0878	0.088	RL-7128
Thorium-230		0.555	pCi/g	0.0856	0.239	RL-7128
Thorium-232		0.746	pCi/g	0.0937	0.173	RL-7128
Thorium-234	U	3.3	pCi/g	6.59	2.06	RL-7124

007-006

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Uranium	U	0.468	pCi/g	0.38	0.296	RL-7128
Uranium-234		0.26	pCi/g	0.0433	0.131	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.197	pCi/g	0.0386	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	BJX	590	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB3

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	U	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-006

BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB3

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

007006SB045

Collected: 3/23/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
RADS						
Activity of U-235	U	0.0251	pCi/g	0.0153	0.039	RL-7128
Alpha activity		3.8	pCi/g	0.829	0.779	RL-7111
Americium-241	U	-0.0029	pCi/g	0.0033	0.0299	RL-7128
Beta activity		2.38	pCi/g	0.317	1.12	RL-7111
Cesium-137	U	-0.0082	pCi/g	0.0165	0.0599	RL-7124
Cobalt-60	U	-0.028	pCi/g	0.056	0.0501	RL-7124
Neptunium-237	U	0.00768	pCi/g	0.0076	0.0422	RL-7128
Plutonium-238	U	-0.0001	pCi/g	0.0042	0.0176	RL-7128
Plutonium-239/240	U	-9E-05	pCi/g	0	0.0165	RL-7128
Technetium-99	U	-0.715	pCi/g	1.19	1.88	RL-7100
Thorium-228		0.409	pCi/g	0.0592	0.0856	RL-7128
Thorium-230		0.27	pCi/g	0.0553	0.236	RL-7128
Thorium-232		0.436	pCi/g	0.0648	0.171	RL-7128
Thorium-234	U	1.56	pCi/g	3.12	1.05	RL-7124
Uranium		0.497	pCi/g	0.294	0.302	RL-7128
Uranium-234		0.239	pCi/g	0.0491	0.133	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.233	pCi/g	0.0483	0.13	RL-7128

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SA010

Collected: 3/14/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	8030	mg/kg		18.8	SW846-6010B
Antimony	UX	9.45	mg/kg		9.45	SW846-6010B
Arsenic		3.36	mg/kg		0.938	SW846-6020
Barium		92.1	mg/kg		2.35	SW846-6010B
Beryllium	U	0.469	mg/kg		0.469	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		719	mg/kg		93.8	SW846-6010B
Chromium		11.5	mg/kg		2.35	SW846-6010B
Cobalt	X	7.7	mg/kg		2.35	SW846-6010B
Copper		10.9	mg/kg		2.35	SW846-6020
Iron	*	12300	mg/kg		18.8	SW846-6010B
Lead		11.5	mg/kg		0.938	SW846-6020
Magnesium	B	1090	mg/kg		4.69	SW846-6010B
Manganese	N	327	mg/kg		2.35	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel		10.7	mg/kg		4.69	SW846-6010B
Selenium	U	0.938	mg/kg		0.938	SW846-6020
Silver	U	2.35	mg/kg		2.35	SW846-6010B
Sodium	X	172	mg/kg		93.8	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium		2.22	mg/kg		0.938	SW846-6020
Vanadium		9.6	mg/kg		2.35	SW846-6010B
Zinc	X	30.9	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0014	pCi/g	0.0003	0.0381	RL-7128
Alpha activity		5.38	pCi/g	1.59	1.47	SW846-9310
Americium-241	U	0.00216	pCi/g	0.0067	0.0298	RL-7128
Beta activity		3.5	pCi/g	0.602	1.54	SW846-9310
Cesium-137	U	-0.0124	pCi/g	0.0247	0.066	RL-7124
Cobalt-60	U	-0.0029	pCi/g	0.0058	0.0807	RL-7124
Neptunium-237	U	-0.0048	pCi/g	0.0079	0.0414	RL-7128
Plutonium-238	U	-0.0018	pCi/g	0.0007	0.0169	RL-7128
Plutonium-239/240	U	0.00679	pCi/g	0.0077	0.0168	RL-7128
Technetium-99	U	0.426	pCi/g	1.16	1.81	RL-7100
Thorium-228		0.449	pCi/g	0.0625	0.0765	RL-7128
Thorium-230		0.351	pCi/g	0.0629	0.236	RL-7128
Thorium-232		0.417	pCi/g	0.0619	0.171	RL-7128
Thorium-234	U	0.851	pCi/g	1.7	1.05	RL-7124

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.521	pCi/g	1.05	0.297	RL-7128
Uranium-234		0.182	pCi/g	0.0367	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.341	pCi/g	0.0469	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	UX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	UX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	UX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	UX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	UX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	UX	500	ug/kg		500	SW846-8270
2-Chlorophenol	UX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	UX	500	ug/kg		500	SW846-8270
2-Methylphenol	UX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
2-Nitrophenol	UX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	UX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	UX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	UX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	UX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	UX	500	ug/kg		500	SW846-8270
4-Nitrophenol	UX	500	ug/kg		500	SW846-8270
Acenaphthene	UX	500	ug/kg		500	SW846-8270
Acenaphthylene	UX	500	ug/kg		500	SW846-8270
Anthracene	UX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	UX	500	ug/kg		500	SW846-8270
Benzenemethanol	UX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	UX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	UX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	UX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	UX	500	ug/kg		500	SW846-8270
Benzoic acid	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	UX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	UX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	UX	500	ug/kg		500	SW846-8270
Chrysene	UX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	UX	500	ug/kg		500	SW846-8270
Dibenzofuran	UX	500	ug/kg		500	SW846-8270
Diethyl phthalate	UX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	UX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	BUX	500	ug/kg		500	SW846-8270
Di-n-octylphthalate	UX	500	ug/kg		500	SW846-8270
Fluoranthene	UX	500	ug/kg		500	SW846-8270
Fluorene	UX	500	ug/kg		500	SW846-8270

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	UX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	UX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	UX	500	ug/kg	500	SW846-8270
Hexachloroethane	UX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	500	ug/kg	500	SW846-8270
Isophorone	UX	500	ug/kg	500	SW846-8270
m,p-Cresol	UX	500	ug/kg	500	SW846-8270
Naphthalene	UX	500	ug/kg	500	SW846-8270
Nitrobenzene	UX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	UX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	UX	500	ug/kg	500	SW846-8270
Pentachlorophenol	UX	500	ug/kg	500	SW846-8270
Phenanthrene	UX	500	ug/kg	500	SW846-8270
Phenol	UX	500	ug/kg	500	SW846-8270
Pyrene	UX	500	ug/kg	500	SW846-8270
Pyridine	UX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene		11.8	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SA015

Collected: 3/14/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5970	mg/kg		19.6	SW846-6010B
Antimony	UX	8.73	mg/kg		8.73	SW846-6010B
Arsenic		1.4	mg/kg		0.981	SW846-6020
Barium		64.6	mg/kg		2.45	SW846-6010B
Beryllium	U	0.49	mg/kg		0.49	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium		936	mg/kg		98.1	SW846-6010B
Chromium		11.2	mg/kg		2.45	SW846-6010B
Cobalt	X	2.73	mg/kg		2.45	SW846-6010B
Copper		7.18	mg/kg		2.45	SW846-6020
Iron	*	7420	mg/kg		19.6	SW846-6010B
Lead		5.58	mg/kg		0.981	SW846-6020
Magnesium	B	929	mg/kg		4.9	SW846-6010B
Manganese	N	56.1	mg/kg		2.45	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel		7.82	mg/kg		4.9	SW846-6010B
Selenium	U	0.981	mg/kg		0.981	SW846-6020
Silver	U	2.45	mg/kg		2.45	SW846-6010B
Sodium	X	252	mg/kg		98.1	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium	U	0.981	mg/kg		0.981	SW846-6020
Vanadium		12.1	mg/kg		2.45	SW846-6010B
Zinc	UX	19.6	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0185	pCi/g	0.0119	0.037	RL-7128
Alpha activity		2.93	pCi/g	1.05	1.28	SW846-9310
Americium-241	U	-0.0046	pCi/g	0	0.0295	RL-7128
Beta activity		2.87	pCi/g	0.516	1.49	SW846-9310
Cesium-137	U	-0.0034	pCi/g	0.0067	0.0443	RL-7124
Cobalt-60	U	-0.0178	pCi/g	0.0356	0.0429	RL-7124
Neptunium-237	U	0.00349	pCi/g	0.0084	0.0405	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0039	0.0167	RL-7128
Plutonium-239/240	U	-0.0022	pCi/g	0.0043	0.0173	RL-7128
Technetium-99	U	-0.0799	pCi/g	1.18	1.81	RL-7100
Thorium-228		0.366	pCi/g	0.0584	0.0766	RL-7128
Thorium-230	U	0.209	pCi/g	0.0537	0.236	RL-7128
Thorium-232		0.263	pCi/g	0.0519	0.171	RL-7128
Thorium-234	U	0.695	pCi/g	1.39	0.841	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.169	pCi/g	0.112	0.295	RL-7128
Uranium-234	U	0.0989	pCi/g	0.0299	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.051	pCi/g	0.0253	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	U	480	ug/kg		480	SW846-8270
2-Chlorophenol	U	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	U	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	U	480	ug/kg		480	SW846-8270
2-Methylphenol	U	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
2-Nitrophenol	U	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	U	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	U	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	U	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Nitrophenol	U	480	ug/kg		480	SW846-8270
Acenaphthene	U	480	ug/kg		480	SW846-8270
Acenaphthylene	U	480	ug/kg		480	SW846-8270
Anthracene	U	480	ug/kg		480	SW846-8270
Benz(a)anthracene	U	480	ug/kg		480	SW846-8270
Benzenemethanol	U	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	U	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	U	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzoic acid	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	U	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	U	480	ug/kg		480	SW846-8270
Chrysene	U	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	U	480	ug/kg		480	SW846-8270
Dibenzofuran	U	480	ug/kg		480	SW846-8270
Diethyl phthalate	U	480	ug/kg		480	SW846-8270
Dimethyl phthalate	U	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	B	1100	ug/kg		480	SW846-8270
Di-n-octylphthalate	U	480	ug/kg		480	SW846-8270
Fluoranthene	U	480	ug/kg		480	SW846-8270
Fluorene	U	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	U	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	U	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	U	480	ug/kg	480	SW846-8270
Hexachloroethane	U	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	U	480	ug/kg	480	SW846-8270
Isophorone	U	480	ug/kg	480	SW846-8270
m,p-Cresol	U	480	ug/kg	480	SW846-8270
Naphthalene	U	480	ug/kg	480	SW846-8270
Nitrobenzene	U	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	U	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	U	480	ug/kg	480	SW846-8270
Pentachlorophenol	U	480	ug/kg	480	SW846-8270
Phenanthrene	U	480	ug/kg	480	SW846-8270
Phenol	U	480	ug/kg	480	SW846-8270
Pyrene	U	480	ug/kg	480	SW846-8270
Pyridine	U	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	10.1	ug/kg	10.1	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene		11.3	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-007**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB4**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SA030

Collected: 3/14/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	4140	mg/kg		17.6	SW846-6010B
Antimony	UX	9.52	mg/kg		9.52	SW846-6010B
Arsenic		1.1	mg/kg		0.879	SW846-6020
Barium		13.3	mg/kg		2.2	SW846-6010B
Beryllium	U	0.439	mg/kg		0.439	SW846-6010B
Cadmium	U	1.76	mg/kg		1.76	SW846-6010B
Calcium		752	mg/kg		87.9	SW846-6010B
Chromium		3.94	mg/kg		2.2	SW846-6010B
Cobalt	UX	2.2	mg/kg		2.2	SW846-6010B
Copper		2.79	mg/kg		2.2	SW846-6020
Iron	*	7430	mg/kg		17.6	SW846-6010B
Lead		4.33	mg/kg		0.879	SW846-6020
Magnesium	B	328	mg/kg		4.39	SW846-6010B
Manganese	N	12.2	mg/kg		2.2	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.2	mg/kg		2.2	SW846-6010B
Nickel	U	4.39	mg/kg		4.39	SW846-6010B
Selenium	U	0.879	mg/kg		0.879	SW846-6020
Silver	U	2.2	mg/kg		2.2	SW846-6010B
Sodium	X	109	mg/kg		87.9	SW846-6010B
Thallium	U	1.76	mg/kg		1.76	SW846-6020
Uranium	U	0.879	mg/kg		0.879	SW846-6020
Vanadium		9.22	mg/kg		2.2	SW846-6010B
Zinc	UX	17.6	mg/kg		17.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0112	pCi/g	0.0106	0.0373	RL-7128
Alpha activity		3.18	pCi/g	1.09	1.23	SW846-9310
Americium-241	U	-0.0029	pCi/g	0.0033	0.0301	RL-7128
Beta activity		2.6	pCi/g	0.477	1.47	SW846-9310
Cesium-137	U	-0.0061	pCi/g	0.0123	0.0434	RL-7124
Cobalt-60	U	-0.003	pCi/g	0.0059	0.0392	RL-7124
Neptunium-237	U	-0.0018	pCi/g	0.0020	0.04	RL-7128
Plutonium-238	U	-0.0015	pCi/g	0.0014	0.0164	RL-7128
Plutonium-239/240	U	0.00026	pCi/g	0.0007	0.0163	RL-7128
Technetium-99	U	-0.652	pCi/g	1.15	1.81	RL-7100
Thorium-228		0.336	pCi/g	0.0562	0.0771	RL-7128
Thorium-230		0.24	pCi/g	0.0562	0.237	RL-7128
Thorium-232		0.359	pCi/g	0.0587	0.174	RL-7128
Thorium-234		1.33	pCi/g	0.555	0.595	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.474	pCi/g	0.416	0.296	RL-7128
Uranium-234		0.245	pCi/g	0.0417	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.217	pCi/g	0.0394	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	UX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	UX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	UX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	UX	480	ug/kg		480	SW846-8270
2-Chlorophenol	UX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	UX	480	ug/kg		480	SW846-8270
2-Methylphenol	UX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
2-Nitrophenol	UX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	UX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	UX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	UX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	UX	480	ug/kg		480	SW846-8270
4-Nitrophenol	UX	480	ug/kg		480	SW846-8270
Acenaphthene	UX	480	ug/kg		480	SW846-8270
Acenaphthylene	UX	480	ug/kg		480	SW846-8270
Anthracene	UX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	UX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	UX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	UX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	UX	480	ug/kg		480	SW846-8270
Benzoic acid	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	UX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	UX	480	ug/kg		480	SW846-8270
Chrysene	UX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	UX	480	ug/kg		480	SW846-8270
Dibenzofuran	UX	480	ug/kg		480	SW846-8270
Diethyl phthalate	UX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	UX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	UX	480	ug/kg		480	SW846-8270
Fluoranthene	UX	480	ug/kg		480	SW846-8270
Fluorene	UX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	UX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	UX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	UX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	480	ug/kg	480	SW846-8270
Isophorone	UX	480	ug/kg	480	SW846-8270
m,p-Cresol	UX	480	ug/kg	480	SW846-8270
Naphthalene	UX	480	ug/kg	480	SW846-8270
Nitrobenzene	UX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	UX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	UX	480	ug/kg	480	SW846-8270
Pentachlorophenol	UX	480	ug/kg	480	SW846-8270
Phenanthrene	UX	480	ug/kg	480	SW846-8270
Phenol	UX	480	ug/kg	480	SW846-8270
Pyrene	UX	480	ug/kg	480	SW846-8270
Pyridine	UX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,1,1-Trichloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,1,2,2-Tetrachloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,1,2-Trichloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,1-Dichloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,1-Dichloroethene	U	19.7	ug/kg	19.7	SW846-8260
1,2,3-Trichloropropane	U	19.7	ug/kg	19.7	SW846-8260
1,2-Dibromoethane	U	19.7	ug/kg	19.7	SW846-8260
1,2-Dichloroethane	U	19.7	ug/kg	19.7	SW846-8260
1,2-Dichloropropane	U	19.7	ug/kg	19.7	SW846-8260
1,2-Dimethylbenzene	U	19.7	ug/kg	19.7	SW846-8260
2-Butanone	U	19.7	ug/kg	19.7	SW846-8260
2-Chloroethyl vinyl ether	JU	39.4	ug/kg	39.4	SW846-8260
2-Hexanone	U	19.7	ug/kg	19.7	SW846-8260
4-Methyl-2-pentanone	U	19.7	ug/kg	19.7	SW846-8260
Acetone	JU	19.7	ug/kg	19.7	SW846-8260
Acrolein	JU	19.7	ug/kg	19.7	SW846-8260
Acrylonitrile	U	19.7	ug/kg	19.7	SW846-8260
Benzene	U	19.7	ug/kg	19.7	SW846-8260
Bromodichloromethane	U	19.7	ug/kg	19.7	SW846-8260
Bromoform	U	19.7	ug/kg	19.7	SW846-8260
Bromomethane	U	19.7	ug/kg	19.7	SW846-8260
Carbon disulfide	U	19.7	ug/kg	19.7	SW846-8260
Carbon tetrachloride	U	19.7	ug/kg	19.7	SW846-8260
Chlorobenzene	U	19.7	ug/kg	19.7	SW846-8260
Chloroethane	U	19.7	ug/kg	19.7	SW846-8260
Chloroform	U	19.7	ug/kg	19.7	SW846-8260
Chloromethane	U	19.7	ug/kg	19.7	SW846-8260
cis-1,2-Dichloroethene		684	ug/kg	19.7	SW846-8260
cis-1,3-Dichloropropene	U	19.7	ug/kg	19.7	SW846-8260
Dibromochloromethane	U	19.7	ug/kg	19.7	SW846-8260
Dibromomethane	U	19.7	ug/kg	19.7	SW846-8260
Dichlorodifluoromethane	JU	19.7	ug/kg	19.7	SW846-8260
Ethyl methacrylate	U	19.7	ug/kg	19.7	SW846-8260
Ethylbenzene	U	19.7	ug/kg	19.7	SW846-8260
Iodomethane	U	19.7	ug/kg	19.7	SW846-8260
m,p-Xylene	U	39.4	ug/kg	39.4	SW846-8260
Methylene chloride	U	19.7	ug/kg	19.7	SW846-8260

007-007**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB4**

Styrene	U	19.7 ug/kg	19.7	SW846-8260
Tetrachloroethene	U	19.7 ug/kg	19.7	SW846-8260
Toluene	U	19.7 ug/kg	19.7	SW846-8260
trans-1,2-Dichloroethene	U	19.7 ug/kg	19.7	SW846-8260
trans-1,3-Dichloropropene	U	19.7 ug/kg	19.7	SW846-8260
Trans-1,4-Dichloro-2-butene	U	19.7 ug/kg	19.7	SW846-8260
Trichloroethene		260 ug/kg	19.7	SW846-8260
Trichlorofluoromethane	U	19.7 ug/kg	19.7	SW846-8260
Vinyl acetate	U	19.7 ug/kg	19.7	SW846-8260
Vinyl chloride		585 ug/kg	19.7	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SA045

Collected: 3/15/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	1650	mg/kg		19	SW846-6010B
Antimony	UX	9.24	mg/kg		9.24	SW846-6010B
Arsenic		1.02	mg/kg		0.951	SW846-6020
Barium		7.81	mg/kg		2.38	SW846-6010B
Beryllium	U	0.476	mg/kg		0.476	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium		233	mg/kg		95.1	SW846-6010B
Chromium	U	2.38	mg/kg		2.38	SW846-6010B
Cobalt	UX	2.38	mg/kg		2.38	SW846-6010B
Copper	U	2.38	mg/kg		2.38	SW846-6020
Iron	*	3950	mg/kg		19	SW846-6010B
Lead		1.87	mg/kg		0.951	SW846-6020
Magnesium	B	109	mg/kg		4.76	SW846-6010B
Manganese	N	29.5	mg/kg		2.38	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.38	mg/kg		2.38	SW846-6010B
Nickel	U	4.76	mg/kg		4.76	SW846-6010B
Selenium	U	0.951	mg/kg		0.951	SW846-6020
Silver	U	2.38	mg/kg		2.38	SW846-6010B
Sodium	UX	95.1	mg/kg		95.1	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	U	0.951	mg/kg		0.951	SW846-6020
Vanadium		7.3	mg/kg		2.38	SW846-6010B
Zinc	UX	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00977	pCi/g	0.0098	0.0374	RL-7128
Alpha activity		1.89	pCi/g	0.79	1.13	SW846-9310
Americium-241	U	-0.0014	pCi/g	0.0044	0.0294	RL-7128
Beta activity	U	0.989	pCi/g	0.215	1.39	SW846-9310
Cesium-137	U	0.00423	pCi/g	0.0085	0.0487	RL-7124
Cobalt-60	U	0.00322	pCi/g	0.0064	0.0371	RL-7124
Neptunium-237	U	0.00461	pCi/g	0.0079	0.0408	RL-7128
Plutonium-238	U	-0.0006	pCi/g	0.0031	0.0165	RL-7128
Plutonium-239/240	U	-0.0013	pCi/g	0.0024	0.0158	RL-7128
Technetium-99	U	-0.133	pCi/g	1.13	1.81	RL-7100
Thorium-228	U	0.0656	pCi/g	0.0325	0.077	RL-7128
Thorium-230	U	-0.0103	pCi/g	0.0354	0.236	RL-7128
Thorium-232	U	0.0371	pCi/g	0.0327	0.172	RL-7128
Thorium-234	U	0.478	pCi/g	0.955	0.704	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.0709	pCi/g	0.0675	0.296	RL-7128
Uranium-234	U	0.0312	pCi/g	0.025	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.03	pCi/g	0.0243	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	U	490	ug/kg		490	SW846-8270
2-Chlorophenol	U	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	U	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	U	490	ug/kg		490	SW846-8270
2-Methylphenol	U	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
2-Nitrophenol	U	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	U	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	U	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	U	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Nitrophenol	U	490	ug/kg		490	SW846-8270
Acenaphthene	U	490	ug/kg		490	SW846-8270
Acenaphthylene	U	490	ug/kg		490	SW846-8270
Anthracene	U	490	ug/kg		490	SW846-8270
Benz(a)anthracene	U	490	ug/kg		490	SW846-8270
Benzenemethanol	JU	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	U	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	U	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzoic acid	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	U	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	U	490	ug/kg		490	SW846-8270
Chrysene	U	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	U	490	ug/kg		490	SW846-8270
Dibenzofuran	U	490	ug/kg		490	SW846-8270
Diethyl phthalate	U	490	ug/kg		490	SW846-8270
Dimethyl phthalate	U	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	U	490	ug/kg		490	SW846-8270
Fluoranthene	U	490	ug/kg		490	SW846-8270
Fluorene	U	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	U	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	U	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JU	490	ug/kg	490	SW846-8270
Hexachloroethane	U	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	U	490	ug/kg	490	SW846-8270
Isophorone	U	490	ug/kg	490	SW846-8270
m,p-Cresol	U	490	ug/kg	490	SW846-8270
Naphthalene	U	490	ug/kg	490	SW846-8270
Nitrobenzene	U	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	U	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	U	490	ug/kg	490	SW846-8270
Pentachlorophenol	U	490	ug/kg	490	SW846-8270
Phenanthrene	U	490	ug/kg	490	SW846-8270
Phenol	U	490	ug/kg	490	SW846-8270
Pyrene	U	490	ug/kg	490	SW846-8270
Pyridine	U	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	9.98	ug/kg	9.98	SW846-8260
1,1,1-Trichloroethane	U	9.98	ug/kg	9.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	9.98	ug/kg	9.98	SW846-8260
1,1,2-Trichloroethane	U	9.98	ug/kg	9.98	SW846-8260
1,1-Dichloroethane		11.9	ug/kg	9.98	SW846-8260
1,1-Dichloroethene	U	9.98	ug/kg	9.98	SW846-8260
1,2,3-Trichloropropane	U	9.98	ug/kg	9.98	SW846-8260
1,2-Dibromoethane	U	9.98	ug/kg	9.98	SW846-8260
1,2-Dichloroethane	U	9.98	ug/kg	9.98	SW846-8260
1,2-Dichloropropane	U	9.98	ug/kg	9.98	SW846-8260
1,2-Dimethylbenzene	U	9.98	ug/kg	9.98	SW846-8260
2-Butanone	U	9.98	ug/kg	9.98	SW846-8260
2-Chloroethyl vinyl ether	JU	20	ug/kg	20	SW846-8260
2-Hexanone	U	9.98	ug/kg	9.98	SW846-8260
4-Methyl-2-pentanone	U	9.98	ug/kg	9.98	SW846-8260
Acetone	JU	9.98	ug/kg	9.98	SW846-8260
Acrolein	JU	9.98	ug/kg	9.98	SW846-8260
Acrylonitrile	U	9.98	ug/kg	9.98	SW846-8260
Benzene	U	9.98	ug/kg	9.98	SW846-8260
Bromodichloromethane	U	9.98	ug/kg	9.98	SW846-8260
Bromoform	U	9.98	ug/kg	9.98	SW846-8260
Bromomethane	U	9.98	ug/kg	9.98	SW846-8260
Carbon disulfide	U	9.98	ug/kg	9.98	SW846-8260
Carbon tetrachloride	U	9.98	ug/kg	9.98	SW846-8260
Chlorobenzene	U	9.98	ug/kg	9.98	SW846-8260
Chloroethane	U	9.98	ug/kg	9.98	SW846-8260
Chloroform	U	9.98	ug/kg	9.98	SW846-8260
Chloromethane	U	9.98	ug/kg	9.98	SW846-8260
cis-1,2-Dichloroethene		135	ug/kg	9.98	SW846-8260
cis-1,3-Dichloropropene	U	9.98	ug/kg	9.98	SW846-8260
Dibromochloromethane	U	9.98	ug/kg	9.98	SW846-8260
Dibromomethane	U	9.98	ug/kg	9.98	SW846-8260
Dichlorodifluoromethane	JU	9.98	ug/kg	9.98	SW846-8260
Ethyl methacrylate	U	9.98	ug/kg	9.98	SW846-8260
Ethylbenzene	U	9.98	ug/kg	9.98	SW846-8260
Iodomethane	U	9.98	ug/kg	9.98	SW846-8260
m,p-Xylene	U	20	ug/kg	20	SW846-8260
Methylene chloride	U	9.98	ug/kg	9.98	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

Styrene	U	9.98	ug/kg	9.98	SW846-8260
Tetrachloroethene	U	9.98	ug/kg	9.98	SW846-8260
Toluene	U	9.98	ug/kg	9.98	SW846-8260
trans-1,2-Dichloroethene	U	9.98	ug/kg	9.98	SW846-8260
trans-1,3-Dichloropropene	U	9.98	ug/kg	9.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	9.98	ug/kg	9.98	SW846-8260
Trichloroethene		211	ug/kg	9.98	SW846-8260
Trichlorofluoromethane	U	9.98	ug/kg	9.98	SW846-8260
Vinyl acetate	U	9.98	ug/kg	9.98	SW846-8260
Vinyl chloride	U	9.98	ug/kg	9.98	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007WA060

Collected: 3/15/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		19.6	mg/L		0.2	SW846-6010B
Antimony	U	0.005	mg/L		0.005	SW846-6020
Arsenic		0.173	mg/L		0.01	SW846-6020
Barium		0.64	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	U	0.0006	mg/L		0.0006	SW846-6020
Calcium		113	mg/L		1	SW846-6010B
Chromium	UX	0.1	mg/L		0.1	SW846-6020
Cobalt	BJ	0.0698	mg/L		0.01	SW846-6020
Copper	UX	0.2	mg/L		0.2	SW846-6020
Iron		75.7	mg/L		0.05	SW846-6010B
Lead		0.0053	mg/L		0.0013	SW846-6020
Magnesium		46	mg/L		0.025	SW846-6010B
Manganese		2.13	mg/L		0.05	SW846-6020
Mercury	JNW	1.7E-05	mg/L		1E-05	SW846-7470A
Molybdenum		0.0382	mg/L		0.001	SW846-6020
Nickel		0.0908	mg/L		0.05	SW846-6020
Selenium		0.00822	mg/L		0.005	SW846-6020
Silver	JU	0.001	mg/L		0.001	SW846-6020
Sodium	B	116	mg/L		5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium		0.00109	mg/L		0.001	SW846-6020
Vanadium	UX	0.2	mg/L		0.2	SW846-6020
Zinc		0.769	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.133	mg/L		0.01	SW846-6020
Barium, Dissolved		0.599	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		112	mg/L		1	SW846-6010B
Chromium, Dissolved	NU	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.0571	mg/L		0.001	SW846-6020
Copper, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	53.4	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		45.1	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	1.7	mg/L		0.05	SW846-6020
Mercury, Dissolved	JU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0404	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0753	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00936	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved	B	109	mg/L		5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved	J	0.729	mg/L		0.2	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

PPCB						
PCB-1016	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082	
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	0.00744	pCi/L	0.0139	0.0497	RL-7128
Alpha activity	UX	-2.95	pCi/L	3.41	15.6	SW846-9310
Americium-241	U	-0.0094	pCi/L	0.0066	0.0992	RL-7128
Beta activity	X	13.5	pCi/L	2.77	13.2	SW846-9310
Cesium-137	U	0.0215	pCi/L	0.0431	0.821	RL-7124
Neptunium-237	U	0.0107	pCi/L	0.0219	0.0725	RL-7128
Plutonium-238	U	-0.0019	pCi/L	0.0064	0.0421	RL-7128
Plutonium-239/240	U	-0.0016	pCi/L	0.0002	0.0592	RL-7128
Technetium-99		3.27	pCi/L	0.554	0.703	RL-7100
Thorium-228		0.234	pCi/L	0.0649	0.15	RL-7128
Thorium-230	U	0.0948	pCi/L	0.0525	0.137	RL-7128
Thorium-232		0.117	pCi/L	0.0477	0.0807	RL-7128
Thorium-234	U	-8.58	pCi/L	17.2	22	RL-7124
Uranium	U	0.491	pCi/L	0.589	0.629	RL-7128
Uranium-234	UX	0.218	pCi/L	0.067	0.477	RL-7128
Uranium-238		0.265	pCi/L	0.0629	0.103	RL-7128
RADS-D						
Activity of U-235	U	-0.0044	pCi/L	0.0005	0.0491	RL-7128
Uranium-234	UX	0.0643	pCi/L	0.0421	0.475	RL-7128
Uranium-238		0.165	pCi/L	0.0463	0.0989	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JU	4.7	ug/L	4.7	SW846-8270	
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270	
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270	
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270	
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270	
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270	
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270	
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270	
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270	
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270	
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270	

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

4-Chlorophenyl phenyl ether	U	4.7 ug/L	4.7 SW846-8270
4-Nitrobenzenamine	U	4.7 ug/L	4.7 SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7 SW846-8270
Acenaphthene	U	4.7 ug/L	4.7 SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7 SW846-8270
Anthracene	U	4.7 ug/L	4.7 SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7 SW846-8270
Benzenemethanol	U	4.7 ug/L	4.7 SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7 SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzo(ghi)perylene	U	4.7 ug/L	4.7 SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Benzoic acid	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7 SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.7 ug/L	4.7 SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Chrysene	U	4.7 ug/L	4.7 SW846-8270
Dibenz(a,h)anthracene	U	4.7 ug/L	4.7 SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7 SW846-8270
Diethyl phthalate	UX	4.7 ug/L	4.7 SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7 SW846-8270
Di-n-butyl phthalate	UX	4.7 ug/L	4.7 SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7 SW846-8270
Fluoranthene	U	4.7 ug/L	4.7 SW846-8270
Fluorene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7 SW846-8270
Hexachlorocyclopentadiene	U	4.7 ug/L	4.7 SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7 SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.7 ug/L	4.7 SW846-8270
Isophorone	U	4.7 ug/L	4.7 SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7 SW846-8270
Naphthalene	U	4.7 ug/L	4.7 SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7 SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7 SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7 SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7 SW846-8270
Phenanthrene	U	4.7 ug/L	4.7 SW846-8270
Phenol	JU	4.7 ug/L	4.7 SW846-8270
Pyrene	U	4.7 ug/L	4.7 SW846-8270
Pyridine	U	4.7 ug/L	4.7 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane		14 ug/L	5 SW846-8260
1,1-Dichloroethane	U	200 ug/L	200 SW846-8260
1,1-Dichloroethene	U	200 ug/L	200 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane		40 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	JU	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene		11 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	JU	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	D	3400 ug/L	200	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene		5.4 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	D	5600 ug/L	40	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	JU	10 ug/L	10	SW846-8260
Vinyl chloride	D	670 ug/L	80	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SA060

Collected: 3/16/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	5000	mg/kg		18.6	SW846-6010B
Antimony	UX	9.76	mg/kg		9.76	SW846-6010B
Arsenic		1.25	mg/kg		0.932	SW846-6020
Barium		52.1	mg/kg		2.33	SW846-6010B
Beryllium		0.512	mg/kg		0.466	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium		545	mg/kg		93.2	SW846-6010B
Chromium		6.67	mg/kg		2.33	SW846-6010B
Cobalt	X	3.52	mg/kg		2.33	SW846-6010B
Copper		5.13	mg/kg		2.33	SW846-6020
Iron	*	13500	mg/kg		18.6	SW846-6010B
Lead		3.22	mg/kg		0.932	SW846-6020
Magnesium	B	463	mg/kg		4.66	SW846-6010B
Manganese	N	196	mg/kg		2.33	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel		6.74	mg/kg		4.66	SW846-6010B
Selenium	U	0.932	mg/kg		0.932	SW846-6020
Silver	U	2.33	mg/kg		2.33	SW846-6010B
Sodium	UX	93.2	mg/kg		93.2	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	U	0.932	mg/kg		0.932	SW846-6020
Vanadium		6.95	mg/kg		2.33	SW846-6010B
Zinc	X	26.1	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0094	pCi/g	0.0087	0.0375	RL-7128
Alpha activity		3.03	pCi/g	1.12	1.39	SW846-9310
Americium-241	U	0.00236	pCi/g	0.0069	0.0303	RL-7128
Beta activity		1.84	pCi/g	0.366	1.52	SW846-9310
Cesium-137	U	0.00246	pCi/g	0.0049	0.0489	RL-7124
Cobalt-60	U	-0.01	pCi/g	0.0199	0.0392	RL-7124
Neptunium-237	U	-0.0045	pCi/g	0.0074	0.0419	RL-7128
Plutonium-238	U	-0.0019	pCi/g	0.0007	0.016	RL-7128
Plutonium-239/240	U	0.00143	pCi/g	0.0031	0.0161	RL-7128
Technetium-99	U	-1.5	pCi/g	1.12	1.81	RL-7100
Thorium-228		0.195	pCi/g	0.0484	0.0783	RL-7128
Thorium-230	U	0.104	pCi/g	0.0492	0.237	RL-7128
Thorium-232		0.191	pCi/g	0.0503	0.172	RL-7128
Thorium-234	U	1.39	pCi/g	2.77	0.876	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.167	pCi/g	0.144	0.297	RL-7128
Uranium-234	U	0.106	pCi/g	0.0322	0.13	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0515	pCi/g	0.0265	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	600	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	JU	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	U	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	JU	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	JU	5.04	ug/kg	5.04	SW846-8260
Acrolein	U	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene		7.9	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-007**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene		91	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007SD045

Collected: 3/15/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	B	1790	mg/kg		19.6	SW846-6010B
Antimony	UX	8.97	mg/kg		8.97	SW846-6010B
Arsenic	U	0.98	mg/kg		0.98	SW846-6020
Barium		7.31	mg/kg		2.45	SW846-6010B
Beryllium	U	0.49	mg/kg		0.49	SW846-6010B
Cadmium	U	1.96	mg/kg		1.96	SW846-6010B
Calcium		189	mg/kg		98	SW846-6010B
Chromium	U	2.45	mg/kg		2.45	SW846-6010B
Cobalt	UX	2.45	mg/kg		2.45	SW846-6010B
Copper	U	2.45	mg/kg		2.45	SW846-6020
Iron	*	3730	mg/kg		19.6	SW846-6010B
Lead		2	mg/kg		0.98	SW846-6020
Magnesium	B	99.4	mg/kg		4.9	SW846-6010B
Manganese	N	27.2	mg/kg		2.45	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.45	mg/kg		2.45	SW846-6010B
Nickel	U	4.9	mg/kg		4.9	SW846-6010B
Selenium	U	0.98	mg/kg		0.98	SW846-6020
Silver	U	2.45	mg/kg		2.45	SW846-6010B
Sodium	UX	98	mg/kg		98	SW846-6010B
Thallium	U	1.96	mg/kg		1.96	SW846-6020
Uranium	U	0.98	mg/kg		0.98	SW846-6020
Vanadium		6.63	mg/kg		2.45	SW846-6010B
Zinc	UX	19.6	mg/kg		19.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
SVOA						
1,2,4-Trichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	UX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	UX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	UX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	UX	470	ug/kg		470	SW846-8270
2-Chlorophenol	UX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	UX	470	ug/kg		470	SW846-8270

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

2-Methylnaphthalene	UX	470	ug/kg	470	SW846-8270
2-Methylphenol	UX	470	ug/kg	470	SW846-8270
2-Nitrobenzenamine	UX	470	ug/kg	470	SW846-8270
2-Nitrophenol	UX	470	ug/kg	470	SW846-8270
3,3'-Dichlorobenzidine	UX	470	ug/kg	470	SW846-8270
3-Nitrobenzenamine	UX	470	ug/kg	470	SW846-8270
4-Bromophenyl phenyl ether	UX	470	ug/kg	470	SW846-8270
4-Chloro-3-methylphenol	UX	470	ug/kg	470	SW846-8270
4-Chlorobenzenamine	UX	470	ug/kg	470	SW846-8270
4-Chlorophenyl phenyl ether	UX	470	ug/kg	470	SW846-8270
4-Nitrobenzenamine	UX	470	ug/kg	470	SW846-8270
4-Nitrophenol	UX	470	ug/kg	470	SW846-8270
Acenaphthene	UX	470	ug/kg	470	SW846-8270
Acenaphthylene	UX	470	ug/kg	470	SW846-8270
Anthracene	UX	470	ug/kg	470	SW846-8270
Benz(a)anthracene	UX	470	ug/kg	470	SW846-8270
Benzenemethanol	JUX	470	ug/kg	470	SW846-8270
Benzo(a)pyrene	UX	470	ug/kg	470	SW846-8270
Benzo(b)fluoranthene	UX	470	ug/kg	470	SW846-8270
Benzo(ghi)perylene	UX	470	ug/kg	470	SW846-8270
Benzo(k)fluoranthene	UX	470	ug/kg	470	SW846-8270
Benzoic acid	UX	470	ug/kg	470	SW846-8270
Bis(2-chloroethoxy)methane	UX	470	ug/kg	470	SW846-8270
Bis(2-chloroethyl) ether	UX	470	ug/kg	470	SW846-8270
Bis(2-chloroisopropyl) ether	UX	470	ug/kg	470	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	470	ug/kg	470	SW846-8270
Butyl benzyl phthalate	UX	470	ug/kg	470	SW846-8270
Chrysene	UX	470	ug/kg	470	SW846-8270
Dibenz(a,h)anthracene	UX	470	ug/kg	470	SW846-8270
Dibenzofuran	UX	470	ug/kg	470	SW846-8270
Diethyl phthalate	UX	470	ug/kg	470	SW846-8270
Dimethyl phthalate	UX	470	ug/kg	470	SW846-8270
Di-n-butyl phthalate	BX	910	ug/kg	470	SW846-8270
Di-n-octylphthalate	UX	470	ug/kg	470	SW846-8270
Fluoranthene	UX	470	ug/kg	470	SW846-8270
Fluorene	UX	470	ug/kg	470	SW846-8270
Hexachlorobenzene	UX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	UX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	UX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	UX	470	ug/kg	470	SW846-8270
Isophorone	UX	470	ug/kg	470	SW846-8270
m,p-Cresol	UX	470	ug/kg	470	SW846-8270
Naphthalene	UX	470	ug/kg	470	SW846-8270
Nitrobenzene	UX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	UX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	UX	470	ug/kg	470	SW846-8270
Pentachlorophenol	UX	470	ug/kg	470	SW846-8270
Phenanthrene	UX	470	ug/kg	470	SW846-8270
Phenol	UX	470	ug/kg	470	SW846-8270
Pyrene	UX	470	ug/kg	470	SW846-8270
Pyridine	UX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	9.81	ug/kg	9.81	SW846-8260
1,1,1-Trichloroethane	U	9.81	ug/kg	9.81	SW846-8260

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

1,1,2,2-Tetrachloroethane	U	9.81	ug/kg	9.81	SW846-8260
1,1,2-Trichloroethane	U	9.81	ug/kg	9.81	SW846-8260
1,1-Dichloroethane	U	9.81	ug/kg	9.81	SW846-8260
1,1-Dichloroethene	U	9.81	ug/kg	9.81	SW846-8260
1,2,3-Trichloropropane	U	9.81	ug/kg	9.81	SW846-8260
1,2-Dibromoethane	U	9.81	ug/kg	9.81	SW846-8260
1,2-Dichloroethane	U	9.81	ug/kg	9.81	SW846-8260
1,2-Dichloropropane	U	9.81	ug/kg	9.81	SW846-8260
1,2-Dimethylbenzene	U	9.81	ug/kg	9.81	SW846-8260
2-Butanone	U	9.81	ug/kg	9.81	SW846-8260
2-Chloroethyl vinyl ether	JU	19.6	ug/kg	19.6	SW846-8260
2-Hexanone	U	9.81	ug/kg	9.81	SW846-8260
4-Methyl-2-pentanone	U	9.81	ug/kg	9.81	SW846-8260
Acetone	JU	9.81	ug/kg	9.81	SW846-8260
Acrolein	JU	9.81	ug/kg	9.81	SW846-8260
Acrylonitrile	U	9.81	ug/kg	9.81	SW846-8260
Benzene	U	9.81	ug/kg	9.81	SW846-8260
Bromodichloromethane	U	9.81	ug/kg	9.81	SW846-8260
Bromoform	U	9.81	ug/kg	9.81	SW846-8260
Bromomethane	U	9.81	ug/kg	9.81	SW846-8260
Carbon disulfide	U	9.81	ug/kg	9.81	SW846-8260
Carbon tetrachloride	U	9.81	ug/kg	9.81	SW846-8260
Chlorobenzene	U	9.81	ug/kg	9.81	SW846-8260
Chloroethane	U	9.81	ug/kg	9.81	SW846-8260
Chloroform	U	9.81	ug/kg	9.81	SW846-8260
Chloromethane	U	9.81	ug/kg	9.81	SW846-8260
cis-1,2-Dichloroethene		70.1	ug/kg	9.81	SW846-8260
cis-1,3-Dichloropropene	U	9.81	ug/kg	9.81	SW846-8260
Dibromochloromethane	U	9.81	ug/kg	9.81	SW846-8260
Dibromomethane	U	9.81	ug/kg	9.81	SW846-8260
Dichlorodifluoromethane	JU	9.81	ug/kg	9.81	SW846-8260
Ethyl methacrylate	U	9.81	ug/kg	9.81	SW846-8260
Ethylbenzene	U	9.81	ug/kg	9.81	SW846-8260
Iodomethane	U	9.81	ug/kg	9.81	SW846-8260
m,p-Xylene	U	19.6	ug/kg	19.6	SW846-8260
Methylene chloride	U	9.81	ug/kg	9.81	SW846-8260
Styrene	U	9.81	ug/kg	9.81	SW846-8260
Tetrachloroethene	U	9.81	ug/kg	9.81	SW846-8260
Toluene	U	9.81	ug/kg	9.81	SW846-8260
trans-1,2-Dichloroethene	U	9.81	ug/kg	9.81	SW846-8260
trans-1,3-Dichloropropene	U	9.81	ug/kg	9.81	SW846-8260
Trans-1,4-Dichloro-2-butene	U	9.81	ug/kg	9.81	SW846-8260
Trichloroethene		115	ug/kg	9.81	SW846-8260
Trichlorofluoromethane	U	9.81	ug/kg	9.81	SW846-8260
Vinyl acetate	U	9.81	ug/kg	9.81	SW846-8260
Vinyl chloride	U	9.81	ug/kg	9.81	SW846-8260

007-007

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007007WD060

Collected: 3/15/2007

Media Type: WG

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
VOA						
1,1,1,2-Tetrachloroethane	U	5	ug/L		5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/L		5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/L		5	SW846-8260
1,1,2-Trichloroethane		13	ug/L		5	SW846-8260
1,1-Dichloroethane	U	200	ug/L		200	SW846-8260
1,1-Dichloroethene	U	200	ug/L		200	SW846-8260
1,2,3-Trichloropropane	U	5	ug/L		5	SW846-8260
1,2-Dibromoethane	U	5	ug/L		5	SW846-8260
1,2-Dichloroethane		39	ug/L		5	SW846-8260
1,2-Dichloropropane	U	5	ug/L		5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/L		5	SW846-8260
2-Butanone	U	10	ug/L		10	SW846-8260
2-Chloroethyl vinyl ether	U	10	ug/L		10	SW846-8260
2-Hexanone	U	10	ug/L		10	SW846-8260
4-Methyl-2-pentanone	U	10	ug/L		10	SW846-8260
Acetone	JU	10	ug/L		10	SW846-8260
Acrolein	U	10	ug/L		10	SW846-8260
Acrylonitrile	U	10	ug/L		10	SW846-8260
Benzene		11	ug/L		5	SW846-8260
Bromodichloromethane	U	5	ug/L		5	SW846-8260
Bromoform	U	5	ug/L		5	SW846-8260
Bromomethane	U	5	ug/L		5	SW846-8260
Carbon disulfide	JU	5	ug/L		5	SW846-8260
Carbon tetrachloride	U	5	ug/L		5	SW846-8260
Chlorobenzene	U	5	ug/L		5	SW846-8260
Chloroethane	U	5	ug/L		5	SW846-8260
Chloroform	U	5	ug/L		5	SW846-8260
Chloromethane	U	5	ug/L		5	SW846-8260
cis-1,2-Dichloroethene	D	3400	ug/L		200	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/L		5	SW846-8260
Dibromochloromethane	U	5	ug/L		5	SW846-8260
Dibromomethane	U	5	ug/L		5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/L		5	SW846-8260
Ethyl methacrylate	U	5	ug/L		5	SW846-8260
Ethylbenzene	U	5	ug/L		5	SW846-8260
Iodomethane	U	5	ug/L		5	SW846-8260
m,p-Xylene	U	10	ug/L		10	SW846-8260
Methylene chloride	U	5	ug/L		5	SW846-8260
Styrene	U	5	ug/L		5	SW846-8260
Tetrachloroethene	U	5	ug/L		5	SW846-8260
Toluene	U	5	ug/L		5	SW846-8260
trans-1,2-Dichloroethene		5.2	ug/L		5	SW846-8260
trans-1,3-Dichloropropene	U	5	ug/L		5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5	ug/L		5	SW846-8260
Trichloroethene	D	5400	ug/L		40	SW846-8260
Trichlorofluoromethane	U	5	ug/L		5	SW846-8260
Vinyl acetate	JU	10	ug/L		10	SW846-8260
Vinyl chloride	D	750	ug/L		80	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008SA010

Collected: 4/2/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7460	mg/kg		18.2	SW846-6010B
Antimony	U	9.73	mg/kg		9.73	SW846-6010B
Arsenic		3.8	mg/kg		0.911	SW846-6020
Barium		150	mg/kg		2.28	SW846-6010B
Beryllium	BUX	0.455	mg/kg		0.455	SW846-6010B
Cadmium	U	1.82	mg/kg		1.82	SW846-6010B
Calcium		1590	mg/kg		91.1	SW846-6010B
Chromium		13.1	mg/kg		2.28	SW846-6010B
Cobalt	X	7.85	mg/kg		2.28	SW846-6010B
Copper		11.4	mg/kg		2.28	SW846-6020
Iron	*	9130	mg/kg		18.2	SW846-6010B
Lead		8.26	mg/kg		0.911	SW846-6020
Magnesium		1590	mg/kg		4.55	SW846-6010B
Manganese	N	277	mg/kg		2.28	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.28	mg/kg		2.28	SW846-6010B
Nickel	X	16.1	mg/kg		4.55	SW846-6010B
Selenium	U	0.911	mg/kg		0.911	SW846-6020
Silver	U	2.28	mg/kg		2.28	SW846-6010B
Sodium	X	153	mg/kg		91.1	SW846-6010B
Thallium	U	1.82	mg/kg		1.82	SW846-6020
Uranium	U	0.911	mg/kg		0.911	SW846-6020
Vanadium	X	6.75	mg/kg		2.28	SW846-6010B
Zinc	X	33.5	mg/kg		18.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0113	pCi/g	0.011	0.0392	RL-7128
Alpha activity		5.44	pCi/g	1.66	1.37	SW846-9310
Americium-241	U	-0.0039	pCi/g	0.0044	0.0196	RL-7128
Beta activity		3.52	pCi/g	0.654	1.43	SW846-9310
Cesium-137	U	-0.0265	pCi/g	0.0531	0.0573	RL-7124
Cobalt-60	U	0.0242	pCi/g	0.0485	0.0666	RL-7124
Neptunium-237	U	-0.0016	pCi/g	0.0082	0.0445	RL-7128
Plutonium-238	U	5.4E-05	pCi/g	0.0038	0.0169	RL-7128
Plutonium-239/240	U	0.001	pCi/g	0.0047	0.0185	RL-7128
Technetium-99	U	0.975	pCi/g	1.05	1.38	RL-7100
Thorium-228		0.506	pCi/g	0.0696	0.0857	RL-7128
Thorium-230		0.446	pCi/g	0.0675	0.241	RL-7128
Thorium-232		0.535	pCi/g	0.0695	0.167	RL-7128
Thorium-234	U	1.3	pCi/g	2.59	1.01	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.274	pCi/g	0.277	0.303	RL-7128
Uranium-234		0.142	pCi/g	0.0362	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.121	pCi/g	0.0334	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Chlorophenol	JUX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Methylphenol	JUX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
2-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	JUX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	JUX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
Acenaphthene	JUX	500	ug/kg		500	SW846-8270
Acenaphthylene	JUX	500	ug/kg		500	SW846-8270
Anthracene	JUX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	JUX	500	ug/kg		500	SW846-8270
Benzenemethanol	JUX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	JUX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	JUX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzoic acid	BJX	620	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	JUX	500	ug/kg		500	SW846-8270
Chrysene	JUX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	JUX	500	ug/kg		500	SW846-8270
Dibenzofuran	JUX	500	ug/kg		500	SW846-8270
Diethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-octylphthalate	JUX	500	ug/kg		500	SW846-8270
Fluoranthene	JUX	500	ug/kg		500	SW846-8270
Fluorene	JUX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	JUX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	JUX	500	ug/kg	500	SW846-8270
Hexachloroethane	JUX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	500	ug/kg	500	SW846-8270
Isophorone	JUX	500	ug/kg	500	SW846-8270
m,p-Cresol	JUX	500	ug/kg	500	SW846-8270
Naphthalene	JUX	500	ug/kg	500	SW846-8270
Nitrobenzene	JUX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	JUX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	JUX	500	ug/kg	500	SW846-8270
Pentachlorophenol	JUX	500	ug/kg	500	SW846-8270
Phenanthrene	JUX	500	ug/kg	500	SW846-8270
Phenol	JUX	500	ug/kg	500	SW846-8270
Pyrene	JUX	500	ug/kg	500	SW846-8270
Pyridine	JUX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	JU	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	JU	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	U	5.02	ug/kg	5.02	SW846-8260
Acrolein	U	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	U	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

Styrene	U	5.02	ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02	ug/kg	5.02	SW846-8260
Toluene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.02	ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02	ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02	ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02	ug/kg	5.02	SW846-8260
Vinyl chloride	U	5.02	ug/kg	5.02	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008SA015

Collected: 4/2/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7320	mg/kg		18.7	SW846-6010B
Antimony	U	9.77	mg/kg		9.77	SW846-6010B
Arsenic	U	0.935	mg/kg		0.935	SW846-6020
Barium		77.7	mg/kg		2.34	SW846-6010B
Beryllium	BUX	0.467	mg/kg		0.467	SW846-6010B
Cadmium	U	1.87	mg/kg		1.87	SW846-6010B
Calcium		1080	mg/kg		93.5	SW846-6010B
Chromium		10.5	mg/kg		2.34	SW846-6010B
Cobalt	UX	2.34	mg/kg		2.34	SW846-6010B
Copper		5.71	mg/kg		2.34	SW846-6020
Iron	*	5360	mg/kg		18.7	SW846-6010B
Lead		6.69	mg/kg		0.935	SW846-6020
Magnesium		883	mg/kg		4.67	SW846-6010B
Manganese	N	66.9	mg/kg		2.34	SW846-6010B
Mercury	U	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	X	7.79	mg/kg		4.67	SW846-6010B
Selenium	U	0.935	mg/kg		0.935	SW846-6020
Silver	U	2.34	mg/kg		2.34	SW846-6010B
Sodium	X	146	mg/kg		93.5	SW846-6010B
Thallium	U	1.87	mg/kg		1.87	SW846-6020
Uranium	U	0.935	mg/kg		0.935	SW846-6020
Vanadium	UX	2.34	mg/kg		2.34	SW846-6010B
Zinc	UX	18.7	mg/kg		18.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00791	pCi/g	0.0092	0.0391	RL-7128
Alpha activity		3.81	pCi/g	1.23	1.1	SW846-9310
Americium-241	U	-0.0052	pCi/g	0.0037	0.0209	RL-7128
Beta activity		2.78	pCi/g	0.539	1.31	SW846-9310
Cesium-137	U	-0.0107	pCi/g	0.0213	0.0422	RL-7124
Cobalt-60	U	0.0169	pCi/g	0.0337	0.0436	RL-7124
Neptunium-237	U	0.00098	pCi/g	0.0123	0.0446	RL-7128
Plutonium-238	U	-0.0034	pCi/g	0.0031	0.0172	RL-7128
Plutonium-239/240	U	-0.0054	pCi/g	0.0044	0.0194	RL-7128
Technetium-99		1.68	pCi/g	1.07	1.38	RL-7100
Thorium-228		0.357	pCi/g	0.0593	0.0859	RL-7128
Thorium-230		0.369	pCi/g	0.063	0.241	RL-7128
Thorium-232		0.473	pCi/g	0.0652	0.167	RL-7128
Thorium-234		1.57	pCi/g	0.586	0.669	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.171	pCi/g	0.204	0.302	RL-7128
Uranium-234	U	0.0838	pCi/g	0.031	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0792	pCi/g	0.0306	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Chlorophenol	JUX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Methylphenol	JUX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
2-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	JUX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	JUX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
Acenaphthene	JUX	460	ug/kg		460	SW846-8270
Acenaphthylene	JUX	460	ug/kg		460	SW846-8270
Anthracene	JUX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	JUX	460	ug/kg		460	SW846-8270
Benzenemethanol	JUX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	JUX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	JUX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzoic acid	BJX	570	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	JUX	460	ug/kg		460	SW846-8270
Chrysene	JUX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	JUX	460	ug/kg		460	SW846-8270
Dibenzofuran	JUX	460	ug/kg		460	SW846-8270
Diethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	JUX	460	ug/kg		460	SW846-8270
Di-n-octylphthalate	JUX	460	ug/kg		460	SW846-8270
Fluoranthene	JUX	460	ug/kg		460	SW846-8270
Fluorene	JUX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	JUX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	JUX	460	ug/kg	460	SW846-8270
Hexachloroethane	JUX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	460	ug/kg	460	SW846-8270
Isophorone	JUX	460	ug/kg	460	SW846-8270
m,p-Cresol	JUX	460	ug/kg	460	SW846-8270
Naphthalene	JUX	460	ug/kg	460	SW846-8270
Nitrobenzene	JUX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	JUX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	JUX	460	ug/kg	460	SW846-8270
Pentachlorophenol	JUX	460	ug/kg	460	SW846-8270
Phenanthrene	JUX	460	ug/kg	460	SW846-8270
Phenol	JUX	460	ug/kg	460	SW846-8270
Pyrene	JUX	460	ug/kg	460	SW846-8270
Pyridine	JUX	460	ug/kg	460	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	JU	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg	4.97	SW846-8260
2-Hexanone	JU	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	U	4.97	ug/kg	4.97	SW846-8260
Acrolein	U	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	U	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	JU	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

007-008**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB4**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008SA030

Collected: 4/2/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4040	mg/kg		18.3	SW846-6010B
Antimony	U	10.2	mg/kg		10.2	SW846-6010B
Arsenic		2.76	mg/kg		0.916	SW846-6020
Barium		12.7	mg/kg		2.29	SW846-6010B
Beryllium	BUX	0.458	mg/kg		0.458	SW846-6010B
Cadmium	U	1.83	mg/kg		1.83	SW846-6010B
Calcium		474	mg/kg		91.6	SW846-6010B
Chromium		19.1	mg/kg		2.29	SW846-6010B
Cobalt	UX	2.29	mg/kg		2.29	SW846-6010B
Copper		2.97	mg/kg		2.29	SW846-6020
Iron	*	9950	mg/kg		18.3	SW846-6010B
Lead		4.52	mg/kg		0.916	SW846-6020
Magnesium		202	mg/kg		4.58	SW846-6010B
Manganese	N	11.1	mg/kg		2.29	SW846-6010B
Mercury	U	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.29	mg/kg		2.29	SW846-6010B
Nickel	UX	4.58	mg/kg		4.58	SW846-6010B
Selenium	U	0.916	mg/kg		0.916	SW846-6020
Silver	U	2.29	mg/kg		2.29	SW846-6010B
Sodium	UX	91.6	mg/kg		91.6	SW846-6010B
Thallium	U	1.83	mg/kg		1.83	SW846-6020
Uranium	U	0.916	mg/kg		0.916	SW846-6020
Vanadium	X	12.3	mg/kg		2.29	SW846-6010B
Zinc	UX	18.3	mg/kg		18.3	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0101	pCi/g	0.0111	0.0385	RL-7128
Alpha activity		3.76	pCi/g	1.25	1.13	SW846-9310
Americium-241	U	-0.0085	pCi/g	0.0029	0.0201	RL-7128
Beta activity		2.06	pCi/g	0.435	1.34	SW846-9310
Cesium-137	U	0.0178	pCi/g	0.0356	0.0422	RL-7124
Cobalt-60	U	0.016	pCi/g	0.032	0.0384	RL-7124
Neptunium-237	U	-0.0029	pCi/g	0.0056	0.0416	RL-7128
Plutonium-238	U	-0.0046	pCi/g	0.0039	0.0163	RL-7128
Plutonium-239/240	U	-0.0024	pCi/g	0	0.017	RL-7128
Technetium-99	U	0.708	pCi/g	1.05	1.38	RL-7100
Thorium-228		0.261	pCi/g	0.0494	0.0851	RL-7128
Thorium-230		0.252	pCi/g	0.0517	0.241	RL-7128
Thorium-232		0.376	pCi/g	0.0564	0.166	RL-7128
Thorium-234	U	0.765	pCi/g	1.53	0.784	RL-7124

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.344	pCi/g	0.387	0.301	RL-7128
Uranium-234		0.206	pCi/g	0.0418	0.134	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.128	pCi/g	0.0351	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	580	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	880	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	JU	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg	5	SW846-8260
2-Hexanone	JU	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	U	5	ug/kg	5	SW846-8260
Acrolein	U	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	U	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	JU	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

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BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008SA045

Collected: 4/2/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		939	mg/kg		17.3	SW846-6010B
Antimony	U	9.33	mg/kg		9.33	SW846-6010B
Arsenic	U	0.863	mg/kg		0.863	SW846-6020
Barium		6.14	mg/kg		2.16	SW846-6010B
Beryllium	BUX	0.432	mg/kg		0.432	SW846-6010B
Cadmium	U	1.73	mg/kg		1.73	SW846-6010B
Calcium		113	mg/kg		86.3	SW846-6010B
Chromium		3.12	mg/kg		2.16	SW846-6010B
Cobalt	UX	2.16	mg/kg		2.16	SW846-6010B
Copper	U	2.16	mg/kg		2.16	SW846-6020
Iron	*	1050	mg/kg		17.3	SW846-6010B
Lead		1.59	mg/kg		0.863	SW846-6020
Magnesium		49.6	mg/kg		4.32	SW846-6010B
Manganese	N	5.53	mg/kg		2.16	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.16	mg/kg		2.16	SW846-6010B
Nickel	UX	4.32	mg/kg		4.32	SW846-6010B
Selenium	U	0.863	mg/kg		0.863	SW846-6020
Silver	U	2.16	mg/kg		2.16	SW846-6010B
Sodium	UX	86.3	mg/kg		86.3	SW846-6010B
Thallium	U	1.73	mg/kg		1.73	SW846-6020
Uranium	U	0.863	mg/kg		0.863	SW846-6020
Vanadium	UX	2.16	mg/kg		2.16	SW846-6010B
Zinc	UX	17.3	mg/kg		17.3	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	-0.0034	pCi/g	0.0048	0.0389	RL-7128
Alpha activity	U	0.649	pCi/g	0.411	0.995	SW846-9310
Americium-241	U	0.00392	pCi/g	0.009	0.0207	RL-7128
Beta activity	U	0.896	pCi/g	0.217	1.17	SW846-9310
Cesium-137	U	-0.0101	pCi/g	0.0201	0.0317	RL-7124
Cobalt-60	U	0.00802	pCi/g	0.016	0.0281	RL-7124
Neptunium-237	U	0.00195	pCi/g	0.0111	0.0438	RL-7128
Plutonium-238	U	-0.0002	pCi/g	0.0033	0.0169	RL-7128
Plutonium-239/240	U	-0.0035	pCi/g	0.0024	0.0178	RL-7128
Technetium-99	U	0.00513	pCi/g	0.0513	1.38	RL-7100
Thorium-228	U	-0.0066	pCi/g	0.0203	0.0845	RL-7128
Thorium-230	U	-0.0559	pCi/g	0.0194	0.24	RL-7128
Thorium-232	U	0.0508	pCi/g	0.0243	0.166	RL-7128
Thorium-234	U	0.843	pCi/g	1.69	0.64	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	-0.0565	pCi/g	0.0886	0.302	RL-7128
Uranium-234	U	-0.0177	pCi/g	0.0202	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0354	pCi/g	0.0158	0.128	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	BJX	610	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,1-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1,2-Trichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,1-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
1,2,3-Trichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dibromoethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloroethane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dichloropropane	U	4.96	ug/kg	4.96	SW846-8260
1,2-Dimethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
2-Butanone	JU	4.96	ug/kg	4.96	SW846-8260
2-Chloroethyl vinyl ether	JU	4.96	ug/kg	4.96	SW846-8260
2-Hexanone	JU	4.96	ug/kg	4.96	SW846-8260
4-Methyl-2-pentanone	U	4.96	ug/kg	4.96	SW846-8260
Acetone	U	4.96	ug/kg	4.96	SW846-8260
Acrolein	U	4.96	ug/kg	4.96	SW846-8260
Acrylonitrile	U	4.96	ug/kg	4.96	SW846-8260
Benzene	U	4.96	ug/kg	4.96	SW846-8260
Bromodichloromethane	U	4.96	ug/kg	4.96	SW846-8260
Bromoform	U	4.96	ug/kg	4.96	SW846-8260
Bromomethane	U	4.96	ug/kg	4.96	SW846-8260
Carbon disulfide	U	4.96	ug/kg	4.96	SW846-8260
Carbon tetrachloride	U	4.96	ug/kg	4.96	SW846-8260
Chlorobenzene	U	4.96	ug/kg	4.96	SW846-8260
Chloroethane	U	4.96	ug/kg	4.96	SW846-8260
Chloroform	U	4.96	ug/kg	4.96	SW846-8260
Chloromethane	U	4.96	ug/kg	4.96	SW846-8260
cis-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
cis-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Dibromochloromethane	U	4.96	ug/kg	4.96	SW846-8260
Dibromomethane	U	4.96	ug/kg	4.96	SW846-8260
Dichlorodifluoromethane	JU	4.96	ug/kg	4.96	SW846-8260
Ethyl methacrylate	U	4.96	ug/kg	4.96	SW846-8260
Ethylbenzene	U	4.96	ug/kg	4.96	SW846-8260
Iodomethane	U	4.96	ug/kg	4.96	SW846-8260
m,p-Xylene	U	9.93	ug/kg	9.93	SW846-8260
Methylene chloride	U	4.96	ug/kg	4.96	SW846-8260

007-008**BGOU07-SWMU7A****Burial Ground OU SWMU 7 Angle Borings****BGOU07-SWMU7ASB4**

Styrene	U	4.96	ug/kg	4.96	SW846-8260
Tetrachloroethene	U	4.96	ug/kg	4.96	SW846-8260
Toluene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,2-Dichloroethene	U	4.96	ug/kg	4.96	SW846-8260
trans-1,3-Dichloropropene	U	4.96	ug/kg	4.96	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.96	ug/kg	4.96	SW846-8260
Trichloroethene	U	4.96	ug/kg	4.96	SW846-8260
Trichlorofluoromethane	U	4.96	ug/kg	4.96	SW846-8260
Vinyl acetate	U	4.96	ug/kg	4.96	SW846-8260
Vinyl chloride	U	4.96	ug/kg	4.96	SW846-8260

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008SA060

Collected: 4/2/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		2830	mg/kg		19.2	SW846-6010B
Antimony	U	10.1	mg/kg		10.1	SW846-6010B
Arsenic	U	0.959	mg/kg		0.959	SW846-6020
Barium		17	mg/kg		2.4	SW846-6010B
Beryllium	BUX	0.479	mg/kg		0.479	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium		313	mg/kg		95.9	SW846-6010B
Chromium		3.88	mg/kg		2.4	SW846-6010B
Cobalt	UX	2.4	mg/kg		2.4	SW846-6010B
Copper	U	2.4	mg/kg		2.4	SW846-6020
Iron	*	2500	mg/kg		19.2	SW846-6010B
Lead		2.43	mg/kg		0.959	SW846-6020
Magnesium		191	mg/kg		4.79	SW846-6010B
Manganese	N	15.2	mg/kg		2.4	SW846-6010B
Mercury	U	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel	UX	4.79	mg/kg		4.79	SW846-6010B
Selenium	U	0.959	mg/kg		0.959	SW846-6020
Silver	U	2.4	mg/kg		2.4	SW846-6010B
Sodium	UX	95.9	mg/kg		95.9	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium	U	0.959	mg/kg		0.959	SW846-6020
Vanadium	UX	2.4	mg/kg		2.4	SW846-6010B
Zinc	UX	19.2	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0041	pCi/g	0.0058	0.0388	RL-7128
Alpha activity		1.55	pCi/g	0.73	1	SW846-9310
Americium-241	U	0.0053	pCi/g	0.0101	0.0219	RL-7128
Beta activity	U	0.19	pCi/g	0.0531	1.2	SW846-9310
Cesium-137	U	-0.0061	pCi/g	0.0122	0.043	RL-7124
Cobalt-60	U	-0.0033	pCi/g	0.0066	0.0372	RL-7124
Neptunium-237	U	-0.0037	pCi/g	0.0040	0.0435	RL-7128
Plutonium-238	U	0.00165	pCi/g	0.005	0.0175	RL-7128
Plutonium-239/240	U	0.00116	pCi/g	0.005	0.0185	RL-7128
Technetium-99	U	-0.323	pCi/g	1.03	1.38	RL-7100
Thorium-228		0.161	pCi/g	0.041	0.0848	RL-7128
Thorium-230	U	0.0365	pCi/g	0.0326	0.241	RL-7128
Thorium-232	U	0.126	pCi/g	0.0349	0.166	RL-7128
Thorium-234	U	0.449	pCi/g	0.898	0.765	RL-7124

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Uranium	U	0.207	pCi/g	0.299	0.302	RL-7128
Uranium-234		0.173	pCi/g	0.0406	0.135	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0295	pCi/g	0.025	0.129	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	BJX	590	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	820	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	JU	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	JU	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	U	5.01	ug/kg	5.01	SW846-8260
Acrolein	U	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	U	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	JU	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-008

BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-008

BGOU07-SWMU7A Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

007008WA060

Collected: 4/2/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		42.3	mg/L		0.2	SW846-6010B
Antimony	BU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.01	mg/L		0.01	SW846-6020
Barium		0.182	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	X	0.00095	mg/L		0.0006	SW846-6020
Calcium		9.49	mg/L		1	SW846-6010B
Chromium	U	0.1	mg/L		0.1	SW846-6020
Cobalt		0.0106	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		25.2	mg/L		0.05	SW846-6010B
Lead		0.0114	mg/L		0.0013	SW846-6020
Magnesium		4.44	mg/L		0.025	SW846-6010B
Manganese		0.185	mg/L		0.05	SW846-6020
Mercury	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum		0.0199	mg/L		0.001	SW846-6020
Nickel	U	0.05	mg/L		0.05	SW846-6020
Selenium	X	0.022	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium		45.9	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00136	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc		0.29	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	BU	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	N	0.00169	mg/L		0.001	SW846-6020
Barium, Dissolved		0.0985	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		8.44	mg/L		1	SW846-6010B
Chromium, Dissolved	NU	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved	NX	0.0062	mg/L		0.001	SW846-6020
Copper, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	9.39	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		3.21	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.126	mg/L		0.005	SW846-6020
Mercury, Dissolved	JU	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00896	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0158	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0219	mg/L		0.005	SW846-6020
Silver, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved	B	44.5	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	NU	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.2	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-008

BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

PPCB						
PCB-1016	U	0.1	ug/L	0.1	SW846-8082	
PCB-1221	U	0.1	ug/L	0.1	SW846-8082	
PCB-1232	U	0.1	ug/L	0.1	SW846-8082	
PCB-1242	U	0.1	ug/L	0.1	SW846-8082	
PCB-1248	U	0.1	ug/L	0.1	SW846-8082	
PCB-1254	U	0.1	ug/L	0.1	SW846-8082	
PCB-1260	U	0.1	ug/L	0.1	SW846-8082	
PCB-1268	U	0.1	ug/L	0.1	SW846-8082	
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082	
RADS						
Activity of U-235	U	0.0129	pCi/L	0.015	0.0493	RL-7128
Alpha activity	X	6.57	pCi/L	3.01	5.23	SW846-9310
Americium-241	U	-0.0024	pCi/L	0.0008	0.0583	RL-7128
Beta activity		9.06	pCi/L	1.63	4.77	SW846-9310
Cesium-137	UX	0.492	pCi/L	0.984	1.3	RL-7124
Neptunium-237	U	-0.0074	pCi/L	0.0079	0.0583	RL-7128
Plutonium-238	U	0.00078	pCi/L	0.0082	0.0411	RL-7128
Plutonium-239/240	U	0.0022	pCi/L	0.0082	0.0427	RL-7128
Technetium-99		4.17	pCi/L	0.55	0.672	RL-7100
Thorium-228		0.205	pCi/L	0.0587	0.127	RL-7128
Thorium-230	U	0.0152	pCi/L	0.0334	0.156	RL-7128
Thorium-232	U	0.0173	pCi/L	0.0225	0.0731	RL-7128
Thorium-234	U	-18.1	pCi/L	36.2	21	RL-7124
Uranium	U	0.693	pCi/L	0.822	0.548	RL-7128
Uranium-234	UX	0.295	pCi/L	0.0595	0.422	RL-7128
Uranium-238		0.385	pCi/L	0.0633	0.0772	RL-7128
RADS-D						
Activity of U-235	U	0.00777	pCi/L	0.0155	0.0665	RL-7128
Uranium-234	UX	0.0654	pCi/L	0.0496	0.435	RL-7128
Uranium-238	U	0.0626	pCi/L	0.0396	0.0903	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270	
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270	
2,4-Dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270	
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270	
2,6-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270	
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270	
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270	
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270	
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270	
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270	
2-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270	
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270	
3,3'-Dichlorobenzidine	JU	4.8	ug/L	4.8	SW846-8270	
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270	
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270	
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270	
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270	

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings

BGOU07-SWMU7ASB4

4-Chlorophenyl phenyl ether	U	4.8 ug/L	4.8 SW846-8270
4-Nitrobenzenamine	U	4.8 ug/L	4.8 SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8 SW846-8270
Acenaphthene	U	4.8 ug/L	4.8 SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8 SW846-8270
Anthracene	U	4.8 ug/L	4.8 SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8 SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8 SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8 SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8 SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Benzoic acid	J	5.5 ug/L	4.8 SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8 SW846-8270
Bis(2-ethylhexyl)phthalate	UX	4.8 ug/L	4.8 SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Chrysene	U	4.8 ug/L	4.8 SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8 SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8 SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8 SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8 SW846-8270
Fluoranthene	U	4.8 ug/L	4.8 SW846-8270
Fluorene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8 SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8 SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8 SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8 SW846-8270
Isophorone	JU	4.8 ug/L	4.8 SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8 SW846-8270
Naphthalene	U	4.8 ug/L	4.8 SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8 SW846-8270
N-Nitroso-di-n-propylamine	JU	4.8 ug/L	4.8 SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8 SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8 SW846-8270
Phenanthrene	U	4.8 ug/L	4.8 SW846-8270
Phenol	JU	4.8 ug/L	4.8 SW846-8270
Pyrene	U	4.8 ug/L	4.8 SW846-8270
Pyridine	U	4.8 ug/L	4.8 SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5 SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethane	U	5 ug/L	5 SW846-8260
1,1-Dichloroethene	U	5 ug/L	5 SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dibromoethane	U	5 ug/L	5 SW846-8260
1,2-Dichloroethane	U	5 ug/L	5 SW846-8260
1,2-Dichloropropane	U	5 ug/L	5 SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5 SW846-8260

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BGOU07-SWMU7A

Burial Ground OU SWMU 7 Angle Borings BGOU07-SWMU7ASB4

2-Butanone	U	10 ug/L	10	SW846-8260
2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	JU	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	JU	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	JU	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	JU	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		3.1 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	JU	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA001

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7680	mg/kg		18	SW846-6010B
Antimony	U	9.51	mg/kg		9.51	SW846-6010B
Arsenic		2.88	mg/kg		0.901	SW846-6020
Barium		47.3	mg/kg		2.25	SW846-6010B
Beryllium	BU	0.451	mg/kg		0.451	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium		1720	mg/kg		90.1	SW846-6010B
Chromium		17.9	mg/kg		2.25	SW846-6010B
Cobalt	X	6.75	mg/kg		2.25	SW846-6010B
Copper	X	12.6	mg/kg		2.25	SW846-6020
Iron		13100	mg/kg		18	SW846-6010B
Lead	B	7.93	mg/kg		0.901	SW846-6020
Magnesium		808	mg/kg		4.51	SW846-6010B
Manganese	*N	107	mg/kg		2.25	SW846-6010B
Mercury	B	0.037	mg/kg		0.017	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel		13	mg/kg		4.51	SW846-6010B
Selenium	U	0.901	mg/kg		0.901	SW846-6020
Silver	*NUX	2.25	mg/kg		2.25	SW846-6010B
Sodium	U	90.1	mg/kg		90.1	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	B	107	mg/kg		9.01	SW846-6020
Vanadium	X	31	mg/kg		2.25	SW846-6010B
Zinc	X	29.9	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254		130	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl		130	ug/kg		90	SW846-8082
RADS						
Activity of U-235		3.62	pCi/g	0.249	0.0493	RL-7128
Alpha activity		65.1	pCi/g	6.06	1.78	RL-7111
Americium-241	U	0.0149	pCi/g	0.0155	0.0224	RL-7128
Beta activity		139	pCi/g	5.45	1.76	RL-7111
Cesium-137	U	0.0337	pCi/g	0.0675	0.103	RL-7124
Cobalt-60	U	0.0467	pCi/g	0.0934	0.08	RL-7124
Neptunium-237		0.0775	pCi/g	0.0236	0.0277	RL-7128
Plutonium-238	U	0.00166	pCi/g	0.0046	0.0173	RL-7128
Plutonium-239/240		0.141	pCi/g	0.0313	0.0182	RL-7128
Technetium-99		11.1	pCi/g	1.33	1.72	RL-7100
Thorium-228		0.465	pCi/g	0.0718	0.0685	RL-7128
Thorium-230		1.22	pCi/g	0.112	0.111	RL-7128
Thorium-232		0.459	pCi/g	0.0689	0.051	RL-7128
Thorium-234		63	pCi/g	3.25	2.25	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium		209	pCi/g	15.2	0.327	RL-7128
Uranium-234		31.4	pCi/g	0.661	0.147	RL-7128
Uranium-235		0.322	wt %	0.0452		RL-7128
Uranium-238		174	pCi/g	1.55	0.131	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Chlorophenol	JUX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Methylphenol	JUX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
2-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	JUX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	JUX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
Acenaphthene	JUX	460	ug/kg		460	SW846-8270
Acenaphthylene	JUX	460	ug/kg		460	SW846-8270
Anthracene	JUX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	JUX	460	ug/kg		460	SW846-8270
Benzenemethanol	JUX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	JUX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	JUX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzoic acid	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	JUX	460	ug/kg		460	SW846-8270
Chrysene	JUX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	JUX	460	ug/kg		460	SW846-8270
Dibenzofuran	JUX	460	ug/kg		460	SW846-8270
Diethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	BJX	940	ug/kg		460	SW846-8270
Di-n-octylphthalate	JUX	460	ug/kg		460	SW846-8270
Fluoranthene	JUX	460	ug/kg		460	SW846-8270
Fluorene	JUX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	JUX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	JUX	460	ug/kg	460	SW846-8270
Hexachloroethane	JUX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	460	ug/kg	460	SW846-8270
Isophorone	JUX	460	ug/kg	460	SW846-8270
m,p-Cresol	JUX	460	ug/kg	460	SW846-8270
Naphthalene	JUX	460	ug/kg	460	SW846-8270
Nitrobenzene	JUX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	JUX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	JUX	460	ug/kg	460	SW846-8270
Pentachlorophenol	JUX	460	ug/kg	460	SW846-8270
Phenanthrene	JUX	460	ug/kg	460	SW846-8270
Phenol	JUX	460	ug/kg	460	SW846-8270
Pyrene	JUX	460	ug/kg	460	SW846-8270
Pyridine	JUX	460	ug/kg	460	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	U	5.01	ug/kg	5.01	SW846-8260
Acrolein	JU	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	JU	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

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BGOU07-SWMU7V Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA005

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		8970	mg/kg		19.8	SW846-6010B
Antimony	U	9.98	mg/kg		9.98	SW846-6010B
Arsenic		7.88	mg/kg		0.988	SW846-6020
Barium		64.4	mg/kg		2.47	SW846-6010B
Beryllium	BU	0.494	mg/kg		0.494	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium		870	mg/kg		98.8	SW846-6010B
Chromium		12.3	mg/kg		2.47	SW846-6010B
Cobalt	UX	2.47	mg/kg		2.47	SW846-6010B
Copper	X	10.7	mg/kg		2.47	SW846-6020
Iron		26000	mg/kg		19.8	SW846-6010B
Lead	B	11	mg/kg		0.988	SW846-6020
Magnesium		767	mg/kg		4.94	SW846-6010B
Manganese	*N	234	mg/kg		2.47	SW846-6010B
Mercury	B	0.057	mg/kg		0.02	SW846-7471
Molybdenum	U	2.47	mg/kg		2.47	SW846-6010B
Nickel		8.64	mg/kg		4.94	SW846-6010B
Selenium	U	0.988	mg/kg		0.988	SW846-6020
Silver	*NUX	2.47	mg/kg		2.47	SW846-6010B
Sodium		116	mg/kg		98.8	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	B	8.94	mg/kg		0.988	SW846-6020
Vanadium	X	34	mg/kg		2.47	SW846-6010B
Zinc	X	24.3	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260		2450	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl		2450	ug/kg		90	SW846-8082
RADS						
Activity of U-235		0.0621	pCi/g	0.0205	0.0375	RL-7128
Alpha activity		18.1	pCi/g	3.18	1.71	RL-7111
Americium-241	U	0.0153	pCi/g	0.0157	0.0225	RL-7128
Beta activity		26.7	pCi/g	2.26	1.74	RL-7111
Cesium-137	U	0.0612	pCi/g	0.122	0.112	RL-7124
Cobalt-60	U	0.00934	pCi/g	0.0187	0.085	RL-7124
Neptunium-237		0.0316	pCi/g	0.0177	0.0293	RL-7128
Plutonium-238	U	0.00022	pCi/g	0.0036	0.0164	RL-7128
Plutonium-239/240		0.136	pCi/g	0.0297	0.0183	RL-7128
Technetium-99		8.23	pCi/g	1.29	1.72	RL-7100
Thorium-228		0.397	pCi/g	0.0594	0.0669	RL-7128
Thorium-230		1.34	pCi/g	0.106	0.11	RL-7128
Thorium-232		0.423	pCi/g	0.0594	0.0477	RL-7128
Thorium-234		6.45	pCi/g	1.46	1.69	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	3.76	pCi/g	1.28	0.3	RL-7128
Uranium-234	1.34	pCi/g	0.0865	0.139	RL-7128
Uranium-235	0.408	wt %	0.142		RL-7128
Uranium-238	2.36	pCi/g	0.113	0.124	RL-7128

SVOA

1,2,4-Trichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg	480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg	480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg	480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg	480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg	480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg	480	SW846-8270
2-Methylphenol	JUX	480	ug/kg	480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg	480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg	480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg	480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg	480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg	480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg	480	SW846-8270
Acenaphthene	JUX	480	ug/kg	480	SW846-8270
Acenaphthylene	JUX	480	ug/kg	480	SW846-8270
Anthracene	JUX	480	ug/kg	480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg	480	SW846-8270
Benzenemethanol	JUX	480	ug/kg	480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg	480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg	480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg	480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg	480	SW846-8270
Benzoic acid	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg	480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg	480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg	480	SW846-8270
Chrysene	JUX	480	ug/kg	480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg	480	SW846-8270
Dibenzofuran	JUX	480	ug/kg	480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg	480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg	480	SW846-8270
Di-n-butyl phthalate	BJX	880	ug/kg	480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg	480	SW846-8270
Fluoranthene	JUX	480	ug/kg	480	SW846-8270
Fluorene	JUX	480	ug/kg	480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	JU	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

007-009**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA010

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7730	mg/kg		18.6	SW846-6010B
Antimony	U	9.39	mg/kg		9.39	SW846-6010B
Arsenic	BU	0.929	mg/kg		0.929	SW846-6020
Barium		129	mg/kg		2.32	SW846-6010B
Beryllium	BU	0.464	mg/kg		0.464	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium		1340	mg/kg		92.9	SW846-6010B
Chromium		11.7	mg/kg		2.32	SW846-6010B
Cobalt	UX	2.32	mg/kg		2.32	SW846-6010B
Copper	X	8.01	mg/kg		2.32	SW846-6020
Iron		6890	mg/kg		18.6	SW846-6010B
Lead	B	5.06	mg/kg		0.929	SW846-6020
Magnesium		1380	mg/kg		4.64	SW846-6010B
Manganese	*N	104	mg/kg		2.32	SW846-6010B
Mercury	B	0.025	mg/kg		0.018	SW846-7471
Molybdenum	U	2.32	mg/kg		2.32	SW846-6010B
Nickel		12.5	mg/kg		4.64	SW846-6010B
Selenium	U	0.929	mg/kg		0.929	SW846-6020
Silver	*NUX	2.32	mg/kg		2.32	SW846-6010B
Sodium		235	mg/kg		92.9	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	BU	0.929	mg/kg		0.929	SW846-6020
Vanadium	X	23.1	mg/kg		2.32	SW846-6010B
Zinc	X	23.9	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0195	pCi/g	0.013	0.0376	RL-7128
Alpha activity		8.05	pCi/g	2.25	1.93	RL-7111
Americium-241	U	-0.0088	pCi/g	0.0058	0.0224	RL-7128
Beta activity		5.1	pCi/g	0.82	1.79	RL-7111
Cesium-137	U	0.0179	pCi/g	0.0359	0.0564	RL-7124
Cobalt-60	U	0.0161	pCi/g	0.0323	0.0592	RL-7124
Neptunium-237	U	0.00203	pCi/g	0.0078	0.0285	RL-7128
Plutonium-238	U	0.00189	pCi/g	0.0063	0.0164	RL-7128
Plutonium-239/240	U	0.00213	pCi/g	0.0071	0.0187	RL-7128
Technetium-99	U	1.67	pCi/g	1.16	1.72	RL-7100
Thorium-228		0.576	pCi/g	0.0768	0.0673	RL-7128
Thorium-230		0.462	pCi/g	0.0712	0.111	RL-7128
Thorium-232		0.479	pCi/g	0.069	0.0495	RL-7128
Thorium-234		2.01	pCi/g	0.975	1.28	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	1.04	pCi/g	0.712	0.301	RL-7128
Uranium-234		0.304	pCi/g	0.0454	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.719	pCi/g	0.0633	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJX	1500	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg	4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	U	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	JU	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.96	ug/kg	9.96	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-009**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA015

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		5290	mg/kg		18.6	SW846-6010B
Antimony	U	9.37	mg/kg		9.37	SW846-6010B
Arsenic		1.22	mg/kg		0.932	SW846-6020
Barium		73.7	mg/kg		2.33	SW846-6010B
Beryllium	BU	0.466	mg/kg		0.466	SW846-6010B
Cadmium	U	1.86	mg/kg		1.86	SW846-6010B
Calcium		1000	mg/kg		93.2	SW846-6010B
Chromium		8.75	mg/kg		2.33	SW846-6010B
Cobalt	UX	2.33	mg/kg		2.33	SW846-6010B
Copper	X	4.82	mg/kg		2.33	SW846-6020
Iron		7270	mg/kg		18.6	SW846-6010B
Lead	B	4.94	mg/kg		0.932	SW846-6020
Magnesium		975	mg/kg		4.66	SW846-6010B
Manganese	*N	49.1	mg/kg		2.33	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.33	mg/kg		2.33	SW846-6010B
Nickel		6.77	mg/kg		4.66	SW846-6010B
Selenium	U	0.932	mg/kg		0.932	SW846-6020
Silver	*NUX	2.33	mg/kg		2.33	SW846-6010B
Sodium		232	mg/kg		93.2	SW846-6010B
Thallium	U	1.86	mg/kg		1.86	SW846-6020
Uranium	BU	0.932	mg/kg		0.932	SW846-6020
Vanadium	X	21	mg/kg		2.33	SW846-6010B
Zinc	UX	18.6	mg/kg		18.6	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00502	pCi/g	0.0078	0.0373	RL-7128
Alpha activity		4.07	pCi/g	1.4	1.55	RL-7111
Americium-241	U	-0.0108	pCi/g	0.0043	0.0216	RL-7128
Beta activity		3.61	pCi/g	0.629	1.69	RL-7111
Cesium-137	U	-0.0137	pCi/g	0.0274	0.0412	RL-7124
Cobalt-60	U	0.0117	pCi/g	0.0235	0.0436	RL-7124
Neptunium-237	U	-0.0063	pCi/g	0.0032	0.0273	RL-7128
Plutonium-238	U	-0.0027	pCi/g	0.0023	0.0161	RL-7128
Plutonium-239/240	U	-0.0044	pCi/g	0.0027	0.0182	RL-7128
Technetium-99		2.69	pCi/g	1.19	1.72	RL-7100
Thorium-228		0.281	pCi/g	0.0517	0.0666	RL-7128
Thorium-230		0.232	pCi/g	0.0489	0.118	RL-7128
Thorium-232		0.301	pCi/g	0.0501	0.0476	RL-7128
Thorium-234	U	0.746	pCi/g	1.49	1.15	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.0461	pCi/g	0.0731	0.3	RL-7128
Uranium-234	U	0.00472	pCi/g	0.0224	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0363	pCi/g	0.0223	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	JU	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

007-009**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene	U	5.03	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

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007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA030

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		3890	mg/kg		18.9	SW846-6010B
Antimony	U	9.85	mg/kg		9.85	SW846-6010B
Arsenic		1.41	mg/kg		0.945	SW846-6020
Barium		21.8	mg/kg		2.36	SW846-6010B
Beryllium	BU	0.473	mg/kg		0.473	SW846-6010B
Cadmium	U	1.89	mg/kg		1.89	SW846-6010B
Calcium		694	mg/kg		94.5	SW846-6010B
Chromium		7.24	mg/kg		2.36	SW846-6010B
Cobalt	UX	2.36	mg/kg		2.36	SW846-6010B
Copper	UX	2.36	mg/kg		2.36	SW846-6020
Iron		7580	mg/kg		18.9	SW846-6010B
Lead	B	3.54	mg/kg		0.945	SW846-6020
Magnesium		343	mg/kg		4.73	SW846-6010B
Manganese	*N	20.7	mg/kg		2.36	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.36	mg/kg		2.36	SW846-6010B
Nickel	U	4.73	mg/kg		4.73	SW846-6010B
Selenium	U	0.945	mg/kg		0.945	SW846-6020
Silver	*NUX	2.36	mg/kg		2.36	SW846-6010B
Sodium	U	94.5	mg/kg		94.5	SW846-6010B
Thallium	U	1.89	mg/kg		1.89	SW846-6020
Uranium	BU	0.945	mg/kg		0.945	SW846-6020
Vanadium	X	20	mg/kg		2.36	SW846-6010B
Zinc	UX	18.9	mg/kg		18.9	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0076	pCi/g	0.0076	0.0392	RL-7128
Alpha activity		3.22	pCi/g	1.2	1.45	RL-7111
Americium-241	U	-0.0104	pCi/g	0.0062	0.0221	RL-7128
Beta activity		2.31	pCi/g	0.442	1.62	RL-7111
Cesium-137	U	-0.015	pCi/g	0.03	0.0403	RL-7124
Cobalt-60	U	-0.0022	pCi/g	0.0044	0.0309	RL-7124
Neptunium-237	U	0.00202	pCi/g	0.0086	0.0286	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0005	0.0161	RL-7128
Plutonium-239/240	U	-0.0012	pCi/g	0.0036	0.0178	RL-7128
Technetium-99		2.35	pCi/g	1.18	1.72	RL-7100
Thorium-228		0.181	pCi/g	0.0456	0.0693	RL-7128
Thorium-230	U	0.0972	pCi/g	0.0402	0.11	RL-7128
Thorium-232		0.21	pCi/g	0.0468	0.0491	RL-7128
Thorium-234	U	1.72	pCi/g	3.44	1.25	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.167	pCi/g	0.174	0.304	RL-7128
Uranium-234	U	0.085	pCi/g	0.0331	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0742	pCi/g	0.031	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	950	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,1-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1,2-Trichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,1-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
1,2,3-Trichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dibromoethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloroethane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dichloropropane	U	5.03	ug/kg	5.03	SW846-8260
1,2-Dimethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
2-Butanone	U	5.03	ug/kg	5.03	SW846-8260
2-Chloroethyl vinyl ether	JU	5.03	ug/kg	5.03	SW846-8260
2-Hexanone	U	5.03	ug/kg	5.03	SW846-8260
4-Methyl-2-pentanone	U	5.03	ug/kg	5.03	SW846-8260
Acetone	U	5.03	ug/kg	5.03	SW846-8260
Acrolein	JU	5.03	ug/kg	5.03	SW846-8260
Acrylonitrile	U	5.03	ug/kg	5.03	SW846-8260
Benzene	U	5.03	ug/kg	5.03	SW846-8260
Bromodichloromethane	U	5.03	ug/kg	5.03	SW846-8260
Bromoform	U	5.03	ug/kg	5.03	SW846-8260
Bromomethane	U	5.03	ug/kg	5.03	SW846-8260
Carbon disulfide	U	5.03	ug/kg	5.03	SW846-8260
Carbon tetrachloride	U	5.03	ug/kg	5.03	SW846-8260
Chlorobenzene	U	5.03	ug/kg	5.03	SW846-8260
Chloroethane	JU	5.03	ug/kg	5.03	SW846-8260
Chloroform	U	5.03	ug/kg	5.03	SW846-8260
Chloromethane	U	5.03	ug/kg	5.03	SW846-8260
cis-1,2-Dichloroethene		29.9	ug/kg	5.03	SW846-8260
cis-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Dibromochloromethane	U	5.03	ug/kg	5.03	SW846-8260
Dibromomethane	U	5.03	ug/kg	5.03	SW846-8260
Dichlorodifluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Ethyl methacrylate	U	5.03	ug/kg	5.03	SW846-8260
Ethylbenzene	U	5.03	ug/kg	5.03	SW846-8260
Iodomethane	U	5.03	ug/kg	5.03	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.03	ug/kg	5.03	SW846-8260

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BGOU07-SWMU7V Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.03	ug/kg	5.03	SW846-8260
Tetrachloroethene	U	5.03	ug/kg	5.03	SW846-8260
Toluene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,2-Dichloroethene	U	5.03	ug/kg	5.03	SW846-8260
trans-1,3-Dichloropropene	U	5.03	ug/kg	5.03	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.03	ug/kg	5.03	SW846-8260
Trichloroethene		5.33	ug/kg	5.03	SW846-8260
Trichlorofluoromethane	U	5.03	ug/kg	5.03	SW846-8260
Vinyl acetate	U	5.03	ug/kg	5.03	SW846-8260
Vinyl chloride	U	5.03	ug/kg	5.03	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA045

Collected: 4/30/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4660	mg/kg		19.8	SW846-6010B
Antimony	U	9.78	mg/kg		9.78	SW846-6010B
Arsenic		1.06	mg/kg		0.992	SW846-6020
Barium		31.8	mg/kg		2.48	SW846-6010B
Beryllium	BU	0.496	mg/kg		0.496	SW846-6010B
Cadmium	U	1.98	mg/kg		1.98	SW846-6010B
Calcium		1220	mg/kg		99.2	SW846-6010B
Chromium		14.1	mg/kg		2.48	SW846-6010B
Cobalt	UX	2.48	mg/kg		2.48	SW846-6010B
Copper	X	3.84	mg/kg		2.48	SW846-6020
Iron		7110	mg/kg		19.8	SW846-6010B
Lead	B	4.09	mg/kg		0.992	SW846-6020
Magnesium		595	mg/kg		4.96	SW846-6010B
Manganese	*N	14.2	mg/kg		2.48	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.48	mg/kg		2.48	SW846-6010B
Nickel	U	4.96	mg/kg		4.96	SW846-6010B
Selenium	U	0.992	mg/kg		0.992	SW846-6020
Silver	*NUX	2.48	mg/kg		2.48	SW846-6010B
Sodium	U	99.2	mg/kg		99.2	SW846-6010B
Thallium	U	1.98	mg/kg		1.98	SW846-6020
Uranium	BU	0.992	mg/kg		0.992	SW846-6020
Vanadium	X	18.4	mg/kg		2.48	SW846-6010B
Zinc	UX	19.8	mg/kg		19.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00233	pCi/g	0.0047	0.0382	RL-7128
Alpha activity		2.93	pCi/g	1.13	1.45	RL-7111
Americium-241	U	-0.0149	pCi/g	0.0022	0.0221	RL-7128
Beta activity		2.39	pCi/g	0.454	1.61	RL-7111
Cesium-137	U	-0.0138	pCi/g	0.0276	0.0426	RL-7124
Cobalt-60	U	0.0142	pCi/g	0.0283	0.051	RL-7124
Neptunium-237	U	-0.0043	pCi/g	0.001	0.0276	RL-7128
Plutonium-238	U	0.00029	pCi/g	0.0038	0.0172	RL-7128
Plutonium-239/240	U	0.00055	pCi/g	0.0064	0.0181	RL-7128
Technetium-99		2.97	pCi/g	1.19	1.72	RL-7100
Thorium-228		0.235	pCi/g	0.0483	0.0664	RL-7128
Thorium-230	U	0.0891	pCi/g	0.0363	0.109	RL-7128
Thorium-232		0.264	pCi/g	0.0482	0.0482	RL-7128
Thorium-234	U	0.309	pCi/g	0.618	1.33	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.0793	pCi/g	0.161	0.303	RL-7128
Uranium-234	U	0.0462	pCi/g	0.0285	0.14	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0307	pCi/g	0.025	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	U	5.01	ug/kg	5.01	SW846-8260
Acrolein	JU	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	JU	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-009**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009SA060

Collected: 5/1/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		4890	mg/kg		20	SW846-6010B
Antimony	U	8.41	mg/kg		8.41	SW846-6010B
Arsenic		1.99	mg/kg		0.999	SW846-6020
Barium		41.8	mg/kg		2.5	SW846-6010B
Beryllium	B	0.629	mg/kg		0.499	SW846-6010B
Cadmium	U	2	mg/kg		2	SW846-6010B
Calcium		699	mg/kg		99.9	SW846-6010B
Chromium		5.84	mg/kg		2.5	SW846-6010B
Cobalt	X	3.47	mg/kg		2.5	SW846-6010B
Copper	X	6.85	mg/kg		2.5	SW846-6020
Iron		12900	mg/kg		20	SW846-6010B
Lead	B	3.57	mg/kg		0.999	SW846-6020
Magnesium		752	mg/kg		4.99	SW846-6010B
Manganese	*N	107	mg/kg		2.5	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.5	mg/kg		2.5	SW846-6010B
Nickel		10.5	mg/kg		4.99	SW846-6010B
Selenium	U	0.999	mg/kg		0.999	SW846-6020
Silver	*NUX	2.5	mg/kg		2.5	SW846-6010B
Sodium	U	99.9	mg/kg		99.9	SW846-6010B
Thallium	U	2	mg/kg		2	SW846-6020
Uranium	BU	0.999	mg/kg		0.999	SW846-6020
Vanadium	X	20.6	mg/kg		2.5	SW846-6010B
Zinc	X	28.3	mg/kg		20	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0098	pCi/g	0.0089	0.0396	RL-7128
Alpha activity		4.14	pCi/g	1.56	1.97	RL-7111
Americium-241	U	-0.0093	pCi/g	0.0052	0.0219	RL-7128
Beta activity		3.12	pCi/g	0.572	1.8	RL-7111
Cesium-137	U	-0.0178	pCi/g	0.0355	0.0443	RL-7124
Cobalt-60	U	0.00301	pCi/g	0.0060	0.0452	RL-7124
Neptunium-237	U	-0.0054	pCi/g	0.0014	0.0269	RL-7128
Plutonium-238	U	0.00315	pCi/g	0.0055	0.0169	RL-7128
Plutonium-239/240	U	-0.0026	pCi/g	0.0009	0.018	RL-7128
Technetium-99		2.21	pCi/g	1.2	1.72	RL-7100
Thorium-228		0.392	pCi/g	0.0604	0.0668	RL-7128
Thorium-230		0.239	pCi/g	0.0515	0.109	RL-7128
Thorium-232		0.382	pCi/g	0.0584	0.0485	RL-7128
Thorium-234	U	1.09	pCi/g	2.18	1.2	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.205	pCi/g	0.192	0.303	RL-7128
Uranium-234	U	0.117	pCi/g	0.033	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.078	pCi/g	0.0271	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	U	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	U	480	ug/kg		480	SW846-8270
2-Chlorophenol	U	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	U	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	U	480	ug/kg		480	SW846-8270
2-Methylphenol	U	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
2-Nitrophenol	U	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	U	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	U	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	U	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Nitrophenol	U	480	ug/kg		480	SW846-8270
Acenaphthene	U	480	ug/kg		480	SW846-8270
Acenaphthylene	U	480	ug/kg		480	SW846-8270
Anthracene	U	480	ug/kg		480	SW846-8270
Benz(a)anthracene	U	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	U	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	U	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzoic acid	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	U	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	U	480	ug/kg		480	SW846-8270
Chrysene	U	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	U	480	ug/kg		480	SW846-8270
Dibenzofuran	U	480	ug/kg		480	SW846-8270
Diethyl phthalate	BUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	U	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	B	1200	ug/kg		480	SW846-8270
Di-n-octylphthalate	U	480	ug/kg		480	SW846-8270
Fluoranthene	U	480	ug/kg		480	SW846-8270
Fluorene	U	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	U	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	U	480	ug/kg	480	SW846-8270
Hexachloroethane	U	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	U	480	ug/kg	480	SW846-8270
Isophorone	U	480	ug/kg	480	SW846-8270
m,p-Cresol	U	480	ug/kg	480	SW846-8270
Naphthalene	U	480	ug/kg	480	SW846-8270
Nitrobenzene	U	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	U	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	U	480	ug/kg	480	SW846-8270
Pentachlorophenol	U	480	ug/kg	480	SW846-8270
Phenanthrene	U	480	ug/kg	480	SW846-8270
Phenol	U	480	ug/kg	480	SW846-8270
Pyrene	U	480	ug/kg	480	SW846-8270
Pyridine	U	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1,2-Trichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,1-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
1,2,3-Trichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dibromoethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloroethane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dichloropropane	U	5.01	ug/kg	5.01	SW846-8260
1,2-Dimethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
2-Butanone	U	5.01	ug/kg	5.01	SW846-8260
2-Chloroethyl vinyl ether	JU	5.01	ug/kg	5.01	SW846-8260
2-Hexanone	U	5.01	ug/kg	5.01	SW846-8260
4-Methyl-2-pentanone	U	5.01	ug/kg	5.01	SW846-8260
Acetone	U	5.01	ug/kg	5.01	SW846-8260
Acrolein	JU	5.01	ug/kg	5.01	SW846-8260
Acrylonitrile	U	5.01	ug/kg	5.01	SW846-8260
Benzene	U	5.01	ug/kg	5.01	SW846-8260
Bromodichloromethane	U	5.01	ug/kg	5.01	SW846-8260
Bromoform	U	5.01	ug/kg	5.01	SW846-8260
Bromomethane	U	5.01	ug/kg	5.01	SW846-8260
Carbon disulfide	U	5.01	ug/kg	5.01	SW846-8260
Carbon tetrachloride	U	5.01	ug/kg	5.01	SW846-8260
Chlorobenzene	U	5.01	ug/kg	5.01	SW846-8260
Chloroethane	JU	5.01	ug/kg	5.01	SW846-8260
Chloroform	U	5.01	ug/kg	5.01	SW846-8260
Chloromethane	U	5.01	ug/kg	5.01	SW846-8260
cis-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
cis-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Dibromochloromethane	U	5.01	ug/kg	5.01	SW846-8260
Dibromomethane	U	5.01	ug/kg	5.01	SW846-8260
Dichlorodifluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Ethyl methacrylate	U	5.01	ug/kg	5.01	SW846-8260
Ethylbenzene	U	5.01	ug/kg	5.01	SW846-8260
Iodomethane	U	5.01	ug/kg	5.01	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.01	ug/kg	5.01	SW846-8260

007-009**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5.01	ug/kg	5.01	SW846-8260
Tetrachloroethene	U	5.01	ug/kg	5.01	SW846-8260
Toluene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,2-Dichloroethene	U	5.01	ug/kg	5.01	SW846-8260
trans-1,3-Dichloropropene	U	5.01	ug/kg	5.01	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.01	ug/kg	5.01	SW846-8260
Trichloroethene	U	5.01	ug/kg	5.01	SW846-8260
Trichlorofluoromethane	U	5.01	ug/kg	5.01	SW846-8260
Vinyl acetate	U	5.01	ug/kg	5.01	SW846-8260
Vinyl chloride	U	5.01	ug/kg	5.01	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009WA030

Collected: 5/1/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	*	185	mg/L		0.2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.1	mg/L		0.1	SW846-6020
Barium	*B	1.69	mg/L		0.05	SW846-6020
Beryllium		0.00524	mg/L		0.001	SW846-6020
Cadmium	X	0.00136	mg/L		0.0006	SW846-6020
Calcium		143	mg/L		1	SW846-6010B
Chromium	*NU	1	mg/L		1	SW846-6020
Cobalt	*U	0.1	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	115	mg/L		0.05	SW846-6010B
Lead	*N	0.074	mg/L		0.013	SW846-6020
Magnesium		64.1	mg/L		0.025	SW846-6010B
Manganese	*X	1.08	mg/L		0.5	SW846-6020
Mercury	X	0.00016	mg/L		2E-05	SW846-7470A
Molybdenum	*N	0.00542	mg/L		0.001	SW846-6020
Nickel	*NU	0.5	mg/L		0.5	SW846-6020
Selenium		0.0225	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium	B	234	mg/L		5	SW846-6010B
Thallium	UX	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.0112	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*U	2	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0276	mg/L		0.001	SW846-6020
Barium, Dissolved		1.01	mg/L		0.05	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		132	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0163	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		10.1	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		53.6	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.593	mg/L		0.005	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00875	mg/L		0.001	SW846-6020
Nickel, Dissolved		0.0211	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0183	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		232	mg/L		5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	B	0.00407	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.14	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB					
PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082
RADS					
Activity of U-235	UT	0.085	pCi/L	0.0753	0.1 RL-7128
Activity of U-235		0.161	pCi/L	0.0669	0.0602 RL-7128
Alpha activity	X	38.8	pCi/L	5.44	9.19 SW846-9310
Americium-241	U	0.0111	pCi/L	0.0224	0.0871 RL-7128
Beta activity	X	209	pCi/L	9.13	10.3 SW846-9310
Cesium-137	U	-0.0505	pCi/L	0.101	0.771 RL-7124
Neptunium-237	U	-0.0075	pCi/L	0.0016	0.09 RL-7128
Plutonium-238	U	0.00193	pCi/L	0.0093	0.046 RL-7128
Plutonium-239/240	U	-0.004	pCi/L	0.0013	0.0491 RL-7128
Technetium-99	B	79.1	pCi/L	11.6	14.8 RL-7100
Thorium-228		0.307	pCi/L	0.122	0.216 RL-7128
Thorium-230	U	0.0307	pCi/L	0.0681	0.27 RL-7128
Thorium-232	U	0.0292	pCi/L	0.0498	0.13 RL-7128
Thorium-234	U	-10.3	pCi/L	20.7	20.8 RL-7124
Uranium		8.83	pCi/L	3.69	0.678 RL-7128
Uranium-234		4.39	pCi/L	0.302	0.53 RL-7128
Uranium-234	T	1.19	pCi/L	0.232	0.383 RL-7128
Uranium-238		4.28	pCi/L	0.296	0.0876 RL-7128
Uranium-238	T	0.956	pCi/L	0.208	0.133 RL-7128
SVOA					
1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	J	6.6	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	JUX	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	JU	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	JU	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	JU	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	JU	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	JU	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	JU	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	JU	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	JU	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	JU	4.8 ug/L	4.8	SW846-8270
Anthracene	JU	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	JU	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Benzoic acid	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Chrysene	JU	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	JU	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	JU	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	JU	4.8 ug/L	4.8	SW846-8270
Fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Fluorene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	JU	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	JU	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	4.8 ug/L	4.8	SW846-8270
Isophorone	JU	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	JU	4.8 ug/L	4.8	SW846-8270
Naphthalene	JU	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	JU	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	JU	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	JU	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	JUX	4.8 ug/L	4.8	SW846-8270
Phenanthrene	JU	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	JU	4.8 ug/L	4.8	SW846-8270
Pyridine	JU	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane		21 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene		12 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	J	9.8 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	D	250 ug/L	120	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane		15 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		59 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride		140 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009WA070

Collected: 5/1/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	*	173	mg/L		0.2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.1	mg/L		0.1	SW846-6020
Barium	*B	2.24	mg/L		0.05	SW846-6020
Beryllium	J	0.00994	mg/L		0.001	SW846-6020
Cadmium	X	0.00329	mg/L		0.0006	SW846-6020
Calcium		44.6	mg/L		1	SW846-6010B
Chromium	*NU	1	mg/L		1	SW846-6020
Cobalt	*	0.163	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	216	mg/L		0.05	SW846-6010B
Lead	*N	0.0935	mg/L		0.0013	SW846-6020
Magnesium		27.1	mg/L		0.025	SW846-6010B
Manganese	*X	9.31	mg/L		0.5	SW846-6020
Mercury	X	9.8E-05	mg/L		1E-05	SW846-7470A
Molybdenum	*N	0.0916	mg/L		0.001	SW846-6020
Nickel	*NU	0.5	mg/L		0.5	SW846-6020
Selenium		0.00768	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium	B	40.6	mg/L		0.5	SW846-6010B
Thallium	X	0.00224	mg/L		0.002	SW846-6020
Uranium	B	0.0118	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*U	2	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00455	mg/L		0.001	SW846-6020
Barium, Dissolved		0.451	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		34.2	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0405	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		16	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		14.6	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	4.42	mg/L		0.05	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0156	mg/L		0.001	SW846-6020
Nickel, Dissolved		0.0391	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		41.5	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.31	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	-0.0035	pCi/L	0.0003	0.0454	RL-7128
Activity of U-235		0.233	pCi/L	0.0757	0.0466	RL-7128
Alpha activity	X	86.6	pCi/L	6.84	6.87	SW846-9310
Americium-241	U	0.0239	pCi/L	0.0256	0.0685	RL-7128
Beta activity	X	730	pCi/L	16.9	9.12	SW846-9310
Cesium-137	U	0.22	pCi/L	0.439	0.872	RL-7124
Neptunium-237	U	0.00095	pCi/L	0.0186	0.0749	RL-7128
Plutonium-238	U	-0.0026	pCi/L	0.0003	0.0383	RL-7128
Plutonium-239/240	U	-0.0001	pCi/L	0.0089	0.0443	RL-7128
Technetium-99	B	812	pCi/L	20.5	14.8	RL-7100
Thorium-228	UT	0.11	pCi/L	0.101	0.184	RL-7128
Thorium-230	UT	0.0885	pCi/L	0.124	0.242	RL-7128
Thorium-232	UT	-0.0248	pCi/L	0.0495	0.146	RL-7128
Thorium-234	U	36.8	pCi/L	73.6	22.8	RL-7124
Uranium		11.5	pCi/L	3.78	0.469	RL-7128
Uranium-234		4.51	pCi/L	0.293	0.359	RL-7128
Uranium-234	U	0.0216	pCi/L	0.0402	0.357	RL-7128
Uranium-238		0.303	pCi/L	0.0666	0.0572	RL-7128
Uranium-238		6.71	pCi/L	0.355	0.0634	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	JU	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	JU	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	JU	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	JU	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	JU	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	JU	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	JU	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	JU	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	JU	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	JU	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	JU	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	JU	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	JU	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	JU	4.8 ug/L	4.8	SW846-8270
Anthracene	JU	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	JU	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	JU	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Benzoic acid	JUX	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	JU	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	JU	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Chrysene	JU	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	JU	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	JU	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	JU	4.8 ug/L	4.8	SW846-8270
Fluoranthene	JU	4.8 ug/L	4.8	SW846-8270
Fluorene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	JU	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	JU	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	JU	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	JU	4.8 ug/L	4.8	SW846-8270
Isophorone	JU	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	JU	4.8 ug/L	4.8	SW846-8270
Naphthalene	JU	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	JU	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	JU	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	JU	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	JU	4.8 ug/L	4.8	SW846-8270
Phenanthrene	JU	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	JU	4.8 ug/L	4.8	SW846-8270
Pyridine	JU	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	500 ug/L	500	SW846-8260
1,1,1-Trichloroethane	U	500 ug/L	500	SW846-8260
1,1,2,2-Tetrachloroethane	U	500 ug/L	500	SW846-8260
1,1,2-Trichloroethane	U	500 ug/L	500	SW846-8260
1,1-Dichloroethane	U	500 ug/L	500	SW846-8260
1,1-Dichloroethene	U	500 ug/L	500	SW846-8260
1,2,3-Trichloropropane	U	500 ug/L	500	SW846-8260
1,2-Dibromoethane	U	500 ug/L	500	SW846-8260
1,2-Dichloroethane	U	500 ug/L	500	SW846-8260
1,2-Dichloropropane	U	500 ug/L	500	SW846-8260
1,2-Dimethylbenzene	U	500 ug/L	500	SW846-8260
2-Butanone	U	1000 ug/L	1000	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	1000 ug/L	1000	SW846-8260
2-Hexanone	U	1000 ug/L	1000	SW846-8260
4-Methyl-2-pentanone	U	1000 ug/L	1000	SW846-8260
Acetone	U	1000 ug/L	1000	SW846-8260
Acrolein	U	1000 ug/L	1000	SW846-8260
Acrylonitrile	U	1000 ug/L	1000	SW846-8260
Benzene	U	500 ug/L	500	SW846-8260
Bromodichloromethane	U	500 ug/L	500	SW846-8260
Bromoform	U	500 ug/L	500	SW846-8260
Bromomethane	U	500 ug/L	500	SW846-8260
Carbon disulfide	U	500 ug/L	500	SW846-8260
Carbon tetrachloride	U	500 ug/L	500	SW846-8260
Chlorobenzene	U	500 ug/L	500	SW846-8260
Chloroethane	JU	500 ug/L	500	SW846-8260
Chloroform	U	500 ug/L	500	SW846-8260
Chloromethane	U	500 ug/L	500	SW846-8260
cis-1,2-Dichloroethene	U	500 ug/L	500	SW846-8260
cis-1,3-Dichloropropene	U	500 ug/L	500	SW846-8260
Dibromochloromethane	U	500 ug/L	500	SW846-8260
Dibromomethane	U	500 ug/L	500	SW846-8260
Dichlorodifluoromethane	U	500 ug/L	500	SW846-8260
Ethyl methacrylate	U	500 ug/L	500	SW846-8260
Ethylbenzene	U	500 ug/L	500	SW846-8260
Iodomethane	U	500 ug/L	500	SW846-8260
m,p-Xylene	U	1000 ug/L	1000	SW846-8260
Methylene chloride	U	500 ug/L	500	SW846-8260
Styrene	U	500 ug/L	500	SW846-8260
Tetrachloroethene	U	500 ug/L	500	SW846-8260
Toluene	U	500 ug/L	500	SW846-8260
trans-1,2-Dichloroethene	U	500 ug/L	500	SW846-8260
trans-1,3-Dichloropropene	U	500 ug/L	500	SW846-8260
Trans-1,4-Dichloro-2-butene	U	500 ug/L	500	SW846-8260
Trichloroethene	D	14000 ug/L	100	SW846-8260
Trichlorofluoromethane	U	500 ug/L	500	SW846-8260
Vinyl acetate	U	1000 ug/L	1000	SW846-8260
Vinyl chloride	U	200 ug/L	200	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009WA080

Collected: 5/7/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		35.8	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0187	mg/L		0.01	SW846-6020
Barium		0.588	mg/L		0.005	SW846-6020
Beryllium		0.0024	mg/L		0.001	SW846-6020
Cadmium	X	0.00108	mg/L		0.0006	SW846-6020
Calcium		37.5	mg/L		1	SW846-6010B
Chromium		0.239	mg/L		0.1	SW846-6020
Cobalt	N	0.036	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		108	mg/L		0.05	SW846-6010B
Lead		0.0232	mg/L		0.0013	SW846-6020
Magnesium		16.8	mg/L		0.025	SW846-6010B
Manganese		2.85	mg/L		0.05	SW846-6020
Mercury	JW	3.7E-05	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0842	mg/L		0.001	SW846-6020
Nickel	N	0.109	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	42.8	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00392	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	1.33	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00384	mg/L		0.001	SW846-6020
Barium, Dissolved		0.296	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		35.2	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0141	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		18.8	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		14.4	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	1.81	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0194	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0499	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		43.9	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.555	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.05	pCi/L	0.0337	0.0487	RL-7128
Activity of U-235		0.14	pCi/L	0.0523	0.0512	RL-7128
Alpha activity	MX	64.4	pCi/L	4.82	5.64	SW846-9310
Americium-241	U	-0.0045	pCi/L	0.0133	0.0907	RL-7128
Beta activity	X	697	pCi/L	12.1	5.59	SW846-9310
Cesium-137	U	0.0959	pCi/L	0.192	1.09	RL-7124
Neptunium-237	U	-0.0066	pCi/L	0.0065	0.0587	RL-7128
Plutonium-238	U	-0.0022	pCi/L	0.0002	0.0299	RL-7128
Plutonium-239/240	U	-0.0011	pCi/L	0.0065	0.0329	RL-7128
Technetium-99	B	530	pCi/L	17.6	14.8	RL-7100
Thorium-228		0.294	pCi/L	0.109	0.151	RL-7128
Thorium-230	U	0.179	pCi/L	0.0913	0.192	RL-7128
Thorium-232	U	0.0528	pCi/L	0.0531	0.0975	RL-7128
Thorium-234	U	31	pCi/L	62	19.4	RL-7124
Uranium		6.32	pCi/L	2.4	0.478	RL-7128
Uranium-234		1.05	pCi/L	0.14	0.359	RL-7128
Uranium-234		2.34	pCi/L	0.194	0.358	RL-7128
Uranium-238		0.43	pCi/L	0.0914	0.068	RL-7128
Uranium-238		3.83	pCi/L	0.244	0.0693	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	U	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	BUX	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	U	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	1000 ug/L	1000	SW846-8260
1,1,1-Trichloroethane	U	1000 ug/L	1000	SW846-8260
1,1,2,2-Tetrachloroethane	U	1000 ug/L	1000	SW846-8260
1,1,2-Trichloroethane	U	1000 ug/L	1000	SW846-8260
1,1-Dichloroethane	U	1000 ug/L	1000	SW846-8260
1,1-Dichloroethene	U	1000 ug/L	1000	SW846-8260
1,2,3-Trichloropropane	U	1000 ug/L	1000	SW846-8260
1,2-Dibromoethane	U	1000 ug/L	1000	SW846-8260
1,2-Dichloroethane	U	1000 ug/L	1000	SW846-8260
1,2-Dichloropropane	U	1000 ug/L	1000	SW846-8260
1,2-Dimethylbenzene	U	1000 ug/L	1000	SW846-8260
2-Butanone	U	2000 ug/L	2000	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	2000 ug/L	2000	SW846-8260
2-Hexanone	JU	2000 ug/L	2000	SW846-8260
4-Methyl-2-pentanone	JU	2000 ug/L	2000	SW846-8260
Acetone	U	2000 ug/L	2000	SW846-8260
Acrolein	JU	2000 ug/L	2000	SW846-8260
Acrylonitrile	U	2000 ug/L	2000	SW846-8260
Benzene	U	1000 ug/L	1000	SW846-8260
Bromodichloromethane	U	1000 ug/L	1000	SW846-8260
Bromoform	U	1000 ug/L	1000	SW846-8260
Bromomethane	U	1000 ug/L	1000	SW846-8260
Carbon disulfide	U	1000 ug/L	1000	SW846-8260
Carbon tetrachloride	U	1000 ug/L	1000	SW846-8260
Chlorobenzene	U	1000 ug/L	1000	SW846-8260
Chloroethane	U	1000 ug/L	1000	SW846-8260
Chloroform	U	1000 ug/L	1000	SW846-8260
Chloromethane	U	1000 ug/L	1000	SW846-8260
cis-1,2-Dichloroethene	U	1000 ug/L	1000	SW846-8260
cis-1,3-Dichloropropene	U	1000 ug/L	1000	SW846-8260
Dibromochloromethane	U	1000 ug/L	1000	SW846-8260
Dibromomethane	U	1000 ug/L	1000	SW846-8260
Dichlorodifluoromethane	U	1000 ug/L	1000	SW846-8260
Ethyl methacrylate	U	1000 ug/L	1000	SW846-8260
Ethylbenzene	U	1000 ug/L	1000	SW846-8260
Iodomethane	U	1000 ug/L	1000	SW846-8260
m,p-Xylene	U	2000 ug/L	2000	SW846-8260
Methylene chloride	U	1000 ug/L	1000	SW846-8260
Styrene	U	1000 ug/L	1000	SW846-8260
Tetrachloroethene	U	1000 ug/L	1000	SW846-8260
Toluene	U	1000 ug/L	1000	SW846-8260
trans-1,2-Dichloroethene	U	1000 ug/L	1000	SW846-8260
trans-1,3-Dichloropropene	U	1000 ug/L	1000	SW846-8260
Trans-1,4-Dichloro-2-butene	U	1000 ug/L	1000	SW846-8260
Trichloroethene	D	18000 ug/L	200	SW846-8260
Trichlorofluoromethane	U	1000 ug/L	1000	SW846-8260
Vinyl acetate	U	2000 ug/L	2000	SW846-8260
Vinyl chloride	U	400 ug/L	400	SW846-8260

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12/18/2007

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009WA090

Collected: 5/8/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		29	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.07	mg/L		0.01	SW846-6020
Barium		1.58	mg/L		0.05	SW846-6020
Beryllium		0.00276	mg/L		0.001	SW846-6020
Cadmium	X	0.00131	mg/L		0.0006	SW846-6020
Calcium		166	mg/L		1	SW846-6010B
Chromium		0.206	mg/L		0.1	SW846-6020
Cobalt	N	0.0914	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		162	mg/L		0.05	SW846-6010B
Lead		0.0177	mg/L		0.0013	SW846-6020
Magnesium		79.1	mg/L		0.025	SW846-6010B
Manganese		9.4	mg/L		0.05	SW846-6020
Mercury	JW	4.6E-05	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0889	mg/L		0.001	SW846-6020
Nickel	N	0.15	mg/L		0.05	SW846-6020
Selenium		0.0253	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	320	mg/L		5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00413	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	1.05	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0436	mg/L		0.001	SW846-6020
Barium, Dissolved		1.26	mg/L		0.05	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		160	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0587	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		56.5	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		72.5	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	8.95	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0267	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0696	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0257	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		312	mg/L		5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.252	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	UT	-0.0033	pCi/L	0	0.279	RL-7128
Activity of U-235	U	0.0424	pCi/L	0.0276	0.0453	RL-7128
Alpha activity	X	46.1	pCi/L	7.39	14.2	SW846-9310
Americium-241	U	-0.0066	pCi/L	0.0218	0.0991	RL-7128
Beta activity	X	266	pCi/L	13.4	18.4	SW846-9310
Cesium-137	UX	-0.275	pCi/L	0.55	1.09	RL-7124
Neptunium-237	U	0.00378	pCi/L	0.0273	0.0992	RL-7128
Plutonium-238	U	0.00452	pCi/L	0.0136	0.0465	RL-7128
Plutonium-239/240	U	0.00249	pCi/L	0.0136	0.0552	RL-7128
Technetium-99	B	221	pCi/L	13.8	14.8	RL-7100
Thorium-228		0.262	pCi/L	0.0936	0.151	RL-7128
Thorium-230	U	0.113	pCi/L	0.0842	0.196	RL-7128
Thorium-232	U	0.0569	pCi/L	0.0486	0.0842	RL-7128
Thorium-234	U	-11.7	pCi/L	23.5	19	RL-7124
Uranium		2.72	pCi/L	1.69	0.466	RL-7128
Uranium-234	UT	0.336	pCi/L	0.296	1.18	RL-7128
Uranium-234		0.974	pCi/L	0.119	0.357	RL-7128
Uranium-238	T	0.294	pCi/L	0.225	0.274	RL-7128
Uranium-238		1.7	pCi/L	0.152	0.0635	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol		8.5	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	UX	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	U	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	U	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	120 ug/L	120	SW846-8260
1,1,1-Trichloroethane	U	120 ug/L	120	SW846-8260
1,1,2,2-Tetrachloroethane	U	120 ug/L	120	SW846-8260
1,1,2-Trichloroethane	U	120 ug/L	120	SW846-8260
1,1-Dichloroethane	U	120 ug/L	120	SW846-8260
1,1-Dichloroethene	U	120 ug/L	120	SW846-8260
1,2,3-Trichloropropane	U	120 ug/L	120	SW846-8260
1,2-Dibromoethane	U	120 ug/L	120	SW846-8260
1,2-Dichloroethane	U	120 ug/L	120	SW846-8260
1,2-Dichloropropane	U	120 ug/L	120	SW846-8260
1,2-Dimethylbenzene	U	120 ug/L	120	SW846-8260
2-Butanone	U	250 ug/L	250	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	250 ug/L	250	SW846-8260
2-Hexanone	JU	250 ug/L	250	SW846-8260
4-Methyl-2-pentanone	JU	250 ug/L	250	SW846-8260
Acetone	U	250 ug/L	250	SW846-8260
Acrolein	JU	250 ug/L	250	SW846-8260
Acrylonitrile	U	250 ug/L	250	SW846-8260
Benzene	U	120 ug/L	120	SW846-8260
Bromodichloromethane	U	120 ug/L	120	SW846-8260
Bromoform	U	120 ug/L	120	SW846-8260
Bromomethane	U	120 ug/L	120	SW846-8260
Carbon disulfide	U	120 ug/L	120	SW846-8260
Carbon tetrachloride	U	120 ug/L	120	SW846-8260
Chlorobenzene	U	120 ug/L	120	SW846-8260
Chloroethane	U	120 ug/L	120	SW846-8260
Chloroform	U	120 ug/L	120	SW846-8260
Chloromethane	U	120 ug/L	120	SW846-8260
cis-1,2-Dichloroethene	D	560 ug/L	120	SW846-8260
cis-1,3-Dichloropropene	U	120 ug/L	120	SW846-8260
Dibromochloromethane	U	120 ug/L	120	SW846-8260
Dibromomethane	U	120 ug/L	120	SW846-8260
Dichlorodifluoromethane	U	120 ug/L	120	SW846-8260
Ethyl methacrylate	U	120 ug/L	120	SW846-8260
Ethylbenzene	U	120 ug/L	120	SW846-8260
Iodomethane	U	120 ug/L	120	SW846-8260
m,p-Xylene	U	250 ug/L	250	SW846-8260
Methylene chloride	U	120 ug/L	120	SW846-8260
Styrene	U	120 ug/L	120	SW846-8260
Tetrachloroethene	U	120 ug/L	120	SW846-8260
Toluene	U	120 ug/L	120	SW846-8260
trans-1,2-Dichloroethene	U	120 ug/L	120	SW846-8260
trans-1,3-Dichloropropene	U	120 ug/L	120	SW846-8260
Trans-1,4-Dichloro-2-butene	U	120 ug/L	120	SW846-8260
Trichloroethene	D	1700 ug/L	25	SW846-8260
Trichlorofluoromethane	U	120 ug/L	120	SW846-8260
Vinyl acetate	U	250 ug/L	250	SW846-8260
Vinyl chloride	D	280 ug/L	50	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-009

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007009WD090

Collected: 5/8/2007

Media Type: WG

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		22.5	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0676	mg/L		0.01	SW846-6020
Barium		1.44	mg/L		0.05	SW846-6020
Beryllium		0.00249	mg/L		0.001	SW846-6020
Cadmium	X	0.00113	mg/L		0.0006	SW846-6020
Calcium		156	mg/L		1	SW846-6010B
Chromium		0.191	mg/L		0.1	SW846-6020
Cobalt	N	0.0867	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		144	mg/L		0.05	SW846-6010B
Lead		0.0142	mg/L		0.0013	SW846-6020
Magnesium		73.4	mg/L		0.025	SW846-6010B
Manganese		8.96	mg/L		0.05	SW846-6020
Mercury	JW	0.00004	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0751	mg/L		0.001	SW846-6020
Nickel	N	0.14	mg/L		0.05	SW846-6020
Selenium		0.0377	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	300	mg/L		5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00336	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	0.829	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.043	mg/L		0.001	SW846-6020
Barium, Dissolved		1.26	mg/L		0.05	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		160	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0585	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		57.6	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		72.9	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	8.87	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0269	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0704	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0266	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		312	mg/L		5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.257	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.0639	pCi/L	0.0368	0.0466	RL-7128
Activity of U-235	U	-0.0029	pCi/L	0.0008	0.139	RL-7128
Alpha activity	X	28.9	pCi/L	5.27	14.9	SW846-9310
Americium-241	U	0.0488	pCi/L	0.0323	0.0924	RL-7128
Beta activity	X	257	pCi/L	13.2	18.7	SW846-9310
Cesium-137	U	-0.0017	pCi/L	0.0034	0.839	RL-7124
Neptunium-237	U	-0.0062	pCi/L	0.0073	0.0649	RL-7128
Plutonium-238	U	0.011	pCi/L	0.0161	0.032	RL-7128
Plutonium-239/240	U	-0.0008	pCi/L	0.0071	0.0324	RL-7128
Technetium-99	B	217	pCi/L	13.7	14.8	RL-7100
Thorium-228		0.401	pCi/L	0.125	0.161	RL-7128
Thorium-230	U	0.11	pCi/L	0.0882	0.231	RL-7128
Thorium-232	U	0.0618	pCi/L	0.0622	0.157	RL-7128
Thorium-234	U	-5.36	pCi/L	10.7	21.7	RL-7124
Uranium		2.72	pCi/L	1.54	0.466	RL-7128
Uranium-234		1.08	pCi/L	0.129	0.358	RL-7128
Uranium-234	U	0.251	pCi/L	0.121	1.16	RL-7128
Uranium-238		1.57	pCi/L	0.152	0.0621	RL-7128
Uranium-238	U	0.176	pCi/L	0.0995	0.199	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol		8.4	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	UX	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	U	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	U	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	120 ug/L	120	SW846-8260
1,1,1-Trichloroethane	U	120 ug/L	120	SW846-8260
1,1,2,2-Tetrachloroethane	U	120 ug/L	120	SW846-8260
1,1,2-Trichloroethane	U	120 ug/L	120	SW846-8260
1,1-Dichloroethane	U	120 ug/L	120	SW846-8260
1,1-Dichloroethene	U	120 ug/L	120	SW846-8260
1,2,3-Trichloropropane	U	120 ug/L	120	SW846-8260
1,2-Dibromoethane	U	120 ug/L	120	SW846-8260
1,2-Dichloroethane	U	120 ug/L	120	SW846-8260
1,2-Dichloropropane	U	120 ug/L	120	SW846-8260
1,2-Dimethylbenzene	U	120 ug/L	120	SW846-8260
2-Butanone	U	250 ug/L	250	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	250 ug/L	250	SW846-8260
2-Hexanone	JU	250 ug/L	250	SW846-8260
4-Methyl-2-pentanone	JU	250 ug/L	250	SW846-8260
Acetone	U	250 ug/L	250	SW846-8260
Acrolein	JU	250 ug/L	250	SW846-8260
Acrylonitrile	U	250 ug/L	250	SW846-8260
Benzene	U	120 ug/L	120	SW846-8260
Bromodichloromethane	U	120 ug/L	120	SW846-8260
Bromoform	U	120 ug/L	120	SW846-8260
Bromomethane	U	120 ug/L	120	SW846-8260
Carbon disulfide	U	120 ug/L	120	SW846-8260
Carbon tetrachloride	U	120 ug/L	120	SW846-8260
Chlorobenzene	U	120 ug/L	120	SW846-8260
Chloroethane	U	120 ug/L	120	SW846-8260
Chloroform	U	120 ug/L	120	SW846-8260
Chloromethane	U	120 ug/L	120	SW846-8260
cis-1,2-Dichloroethene	D	580 ug/L	120	SW846-8260
cis-1,3-Dichloropropene	U	120 ug/L	120	SW846-8260
Dibromochloromethane	U	120 ug/L	120	SW846-8260
Dibromomethane	U	120 ug/L	120	SW846-8260
Dichlorodifluoromethane	U	120 ug/L	120	SW846-8260
Ethyl methacrylate	U	120 ug/L	120	SW846-8260
Ethylbenzene	U	120 ug/L	120	SW846-8260
Iodomethane	U	120 ug/L	120	SW846-8260
m,p-Xylene	U	250 ug/L	250	SW846-8260
Methylene chloride	U	120 ug/L	120	SW846-8260
Styrene	U	120 ug/L	120	SW846-8260
Tetrachloroethene	U	120 ug/L	120	SW846-8260
Toluene	U	120 ug/L	120	SW846-8260
trans-1,2-Dichloroethene	U	120 ug/L	120	SW846-8260
trans-1,3-Dichloropropene	U	120 ug/L	120	SW846-8260
Trans-1,4-Dichloro-2-butene	U	120 ug/L	120	SW846-8260
Trichloroethene	D	1700 ug/L	25	SW846-8260
Trichlorofluoromethane	U	120 ug/L	120	SW846-8260
Vinyl acetate	U	250 ug/L	250	SW846-8260
Vinyl chloride	D	300 ug/L	50	SW846-8260

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007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA001

Collected: 5/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		8910	mg/kg		19	SW846-6010B
Antimony	U	9.89	mg/kg		9.89	SW846-6010B
Arsenic		3.14	mg/kg		0.948	SW846-6020
Barium	N	61.2	mg/kg		2.37	SW846-6010B
Beryllium	U	0.474	mg/kg		0.474	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium	*N	2100	mg/kg		94.8	SW846-6010B
Chromium		16.2	mg/kg		2.37	SW846-6010B
Cobalt		3.36	mg/kg		2.37	SW846-6010B
Copper	NX	53.9	mg/kg		23.7	SW846-6020
Iron		10000	mg/kg		19	SW846-6010B
Lead		11.9	mg/kg		0.948	SW846-6020
Magnesium	*N	1040	mg/kg		4.74	SW846-6010B
Manganese	*N	122	mg/kg		2.37	SW846-6010B
Mercury		0.043	mg/kg		0.017	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel	N	29.8	mg/kg		4.74	SW846-6010B
Selenium	U	0.948	mg/kg		0.948	SW846-6020
Silver	U	2.37	mg/kg		2.37	SW846-6010B
Sodium	U	94.8	mg/kg		94.8	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	B	1270	mg/kg		948	SW846-6020
Vanadium	X	26.1	mg/kg		2.37	SW846-6010B
Zinc	N	37.8	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	DUY	950	ug/kg		950	SW846-8082
PCB-1221	DUY	950	ug/kg		950	SW846-8082
PCB-1232	DUY	950	ug/kg		950	SW846-8082
PCB-1242	DUY	950	ug/kg		950	SW846-8082
PCB-1248	DY	14800	ug/kg		950	SW846-8082
PCB-1254	DUY	950	ug/kg		950	SW846-8082
PCB-1260	DUY	950	ug/kg		950	SW846-8082
PCB-1268	DUY	0.95	mg/kg		0.95	SW846-8082
Polychlorinated biphenyl	DY	14800	ug/kg		950	SW846-8082
RADS						
Activity of U-235	T	42.1	pCi/g	3.05	0.423	RL-7128
Alpha activity		50.7	pCi/g	5.15	1.54	RL-7111
Americium-241	U	0.00342	pCi/g	0.0255	0.166	RL-7128
Beta activity		78.6	pCi/g	4.01	1.72	RL-7111
Cesium-137	UX	0.028	pCi/g	0.0559	0.249	RL-7124
Cobalt-60	UX	-0.0423	pCi/g	0.0846	0.107	RL-7124
Neptunium-237	U	0.0518	pCi/g	0.0884	0.247	RL-7128
Plutonium-238	U	0.00744	pCi/g	0.0268	0.129	RL-7128
Plutonium-239/240	U	0.0352	pCi/g	0.0501	0.13	RL-7128
Technetium-99		1.9	pCi/g	1.18	1.77	RL-7100
Thorium-228		3.36	pCi/g	0.462	0.832	RL-7128
Thorium-230		1.94	pCi/g	0.359	0.91	RL-7128
Thorium-232	U	0.235	pCi/g	0.157	0.396	RL-7128
Thorium-234	X	2650	pCi/g	11.7	8.27	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	T	2750	pCi/g	211	2.46	RL-7128
Uranium-234	T	318	pCi/g	7.54	1.01	RL-7128
Uranium-235	T	0.274	wt %	0.0472		RL-7128
Uranium-238	T	2390	pCi/g	20.6	1.03	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	U	480	ug/kg		480	SW846-8270
2-Chlorophenol	U	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	U	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	U	480	ug/kg		480	SW846-8270
2-Methylphenol	U	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
2-Nitrophenol	U	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	U	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	U	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	U	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Nitrophenol	U	480	ug/kg		480	SW846-8270
Acenaphthene	U	480	ug/kg		480	SW846-8270
Acenaphthylene	U	480	ug/kg		480	SW846-8270
Anthracene	U	480	ug/kg		480	SW846-8270
Benz(a)anthracene	U	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	U	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	U	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzoic acid	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	U	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	U	480	ug/kg		480	SW846-8270
Chrysene	U	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	U	480	ug/kg		480	SW846-8270
Dibenzofuran	U	480	ug/kg		480	SW846-8270
Diethyl phthalate	U	480	ug/kg		480	SW846-8270
Dimethyl phthalate	U	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BUX	480	ug/kg		480	SW846-8270
Di-n-octylphthalate	U	480	ug/kg		480	SW846-8270
Fluoranthene	U	480	ug/kg		480	SW846-8270
Fluorene	U	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	480 ug/kg	480	SW846-8270
Hexachlorobutadiene	U	480 ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	U	480 ug/kg	480	SW846-8270
Hexachloroethane	U	480 ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	U	480 ug/kg	480	SW846-8270
Isophorone	U	480 ug/kg	480	SW846-8270
m,p-Cresol	U	480 ug/kg	480	SW846-8270
Naphthalene	U	480 ug/kg	480	SW846-8270
Nitrobenzene	U	480 ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	U	480 ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	U	480 ug/kg	480	SW846-8270
Pentachlorophenol	U	480 ug/kg	480	SW846-8270
Phenanthrene	U	480 ug/kg	480	SW846-8270
Phenol	U	480 ug/kg	480	SW846-8270
Pyrene	U	480 ug/kg	480	SW846-8270
Pyridine	U	480 ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5 ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5 ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5 ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5 ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5 ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/kg	5	SW846-8260
2-Butanone	U	5 ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	5 ug/kg	5	SW846-8260
2-Hexanone	U	5 ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5 ug/kg	5	SW846-8260
Acetone		83.7 ug/kg	5	SW846-8260
Acrolein	JU	5 ug/kg	5	SW846-8260
Acrylonitrile	U	5 ug/kg	5	SW846-8260
Benzene	U	5 ug/kg	5	SW846-8260
Bromodichloromethane	U	5 ug/kg	5	SW846-8260
Bromoform	U	5 ug/kg	5	SW846-8260
Bromomethane	U	5 ug/kg	5	SW846-8260
Carbon disulfide	JU	5 ug/kg	5	SW846-8260
Carbon tetrachloride	U	5 ug/kg	5	SW846-8260
Chlorobenzene	U	5 ug/kg	5	SW846-8260
Chloroethane	U	5 ug/kg	5	SW846-8260
Chloroform	U	5 ug/kg	5	SW846-8260
Chloromethane	U	5 ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/kg	5	SW846-8260
Dibromochloromethane	U	5 ug/kg	5	SW846-8260
Dibromomethane	U	5 ug/kg	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/kg	5	SW846-8260
Ethyl methacrylate	U	5 ug/kg	5	SW846-8260
Ethylbenzene	U	5 ug/kg	5	SW846-8260
Iodomethane	U	5 ug/kg	5	SW846-8260
m,p-Xylene	U	10 ug/kg	10	SW846-8260
Methylene chloride		5.7 ug/kg	5	SW846-8260

007-010**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA005

Collected: 5/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		4790	mg/kg		18	SW846-6010B
Antimony	U	9.27	mg/kg		9.27	SW846-6010B
Arsenic		3.47	mg/kg		0.9	SW846-6020
Barium	N	72.3	mg/kg		2.25	SW846-6010B
Beryllium	U	0.45	mg/kg		0.45	SW846-6010B
Cadmium	U	1.8	mg/kg		1.8	SW846-6010B
Calcium	*N	471	mg/kg		90	SW846-6010B
Chromium		8.58	mg/kg		2.25	SW846-6010B
Cobalt		4.61	mg/kg		2.25	SW846-6010B
Copper	NX	7.64	mg/kg		2.25	SW846-6020
Iron		8180	mg/kg		18	SW846-6010B
Lead		9.3	mg/kg		0.9	SW846-6020
Magnesium	*N	419	mg/kg		4.5	SW846-6010B
Manganese	*N	218	mg/kg		2.25	SW846-6010B
Mercury		0.022	mg/kg		0.019	SW846-7471
Molybdenum	U	2.25	mg/kg		2.25	SW846-6010B
Nickel	N	6.28	mg/kg		4.5	SW846-6010B
Selenium	U	0.9	mg/kg		0.9	SW846-6020
Silver	U	2.25	mg/kg		2.25	SW846-6010B
Sodium	U	90	mg/kg		90	SW846-6010B
Thallium	U	1.8	mg/kg		1.8	SW846-6020
Uranium	B	7.56	mg/kg		0.9	SW846-6020
Vanadium	X	20.4	mg/kg		2.25	SW846-6010B
Zinc	NU	18	mg/kg		18	SW846-6010B
PCCB						
PCB-1016	UY	100	ug/kg		100	SW846-8082
PCB-1221	UY	100	ug/kg		100	SW846-8082
PCB-1232	UY	100	ug/kg		100	SW846-8082
PCB-1242	UY	100	ug/kg		100	SW846-8082
PCB-1248	UY	100	ug/kg		100	SW846-8082
PCB-1254	UY	100	ug/kg		100	SW846-8082
PCB-1260	UY	100	ug/kg		100	SW846-8082
PCB-1268	UY	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	UY	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235		0.1	pCi/g	0.0461	0.0484	RL-7128
Alpha activity		12.2	pCi/g	2.55	1.59	RL-7111
Americium-241	U	-0.0128	pCi/g	0.0021	0.0206	RL-7128
Beta activity		12.7	pCi/g	1.47	1.73	RL-7111
Cesium-137	U	-0.0043	pCi/g	0.0087	0.0614	RL-7124
Cobalt-60	U	-0.0079	pCi/g	0.0158	0.0592	RL-7124
Neptunium-237	U	-0.0072	pCi/g	0.0064	0.0275	RL-7128
Plutonium-238	U	-0.0063	pCi/g	0.0026	0.0156	RL-7128
Plutonium-239/240	U	-0.0009	pCi/g	0.0034	0.0178	RL-7128
Technetium-99	U	1.09	pCi/g	1.17	1.77	RL-7100
Thorium-228		1.38	pCi/g	0.113	0.0909	RL-7128
Thorium-230		0.211	pCi/g	0.053	0.117	RL-7128
Thorium-232		0.205	pCi/g	0.0459	0.0702	RL-7128
Thorium-234		7.52	pCi/g	0.86	0.997	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium		6.87	pCi/g	3.24	0.305	RL-7128
Uranium-234		0.903	pCi/g	0.125	0.137	RL-7128
Uranium-235		0.265	wt %	0.129		RL-7128
Uranium-238		5.87	pCi/g	0.305	0.12	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	U	480	ug/kg		480	SW846-8270
2-Chlorophenol	U	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	U	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	U	480	ug/kg		480	SW846-8270
2-Methylphenol	U	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
2-Nitrophenol	U	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	U	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	U	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	U	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Nitrophenol	U	480	ug/kg		480	SW846-8270
Acenaphthene	U	480	ug/kg		480	SW846-8270
Acenaphthylene	U	480	ug/kg		480	SW846-8270
Anthracene	U	480	ug/kg		480	SW846-8270
Benz(a)anthracene	U	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	U	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	U	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzoic acid	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	U	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	U	480	ug/kg		480	SW846-8270
Chrysene	U	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	U	480	ug/kg		480	SW846-8270
Dibenzofuran	U	480	ug/kg		480	SW846-8270
Diethyl phthalate	U	480	ug/kg		480	SW846-8270
Dimethyl phthalate	U	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BX	1100	ug/kg		480	SW846-8270
Di-n-octylphthalate	U	480	ug/kg		480	SW846-8270
Fluoranthene	U	480	ug/kg		480	SW846-8270
Fluorene	U	480	ug/kg		480	SW846-8270

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	U	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	U	480	ug/kg	480	SW846-8270
Hexachloroethane	U	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	U	480	ug/kg	480	SW846-8270
Isophorone	U	480	ug/kg	480	SW846-8270
m,p-Cresol	U	480	ug/kg	480	SW846-8270
Naphthalene	U	480	ug/kg	480	SW846-8270
Nitrobenzene	U	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	U	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	U	480	ug/kg	480	SW846-8270
Pentachlorophenol	U	480	ug/kg	480	SW846-8270
Phenanthrene	U	480	ug/kg	480	SW846-8270
Phenol	U	480	ug/kg	480	SW846-8270
Pyrene	U	480	ug/kg	480	SW846-8270
Pyridine	U	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	U	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone		15.4	ug/kg	5.02	SW846-8260
Acrolein	JU	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	JU	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene		14.1	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.02 ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02 ug/kg	5.02	SW846-8260
Toluene	U	5.02 ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02 ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02 ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.02 ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02 ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02 ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02 ug/kg	5.02	SW846-8260
Vinyl chloride		5.46 ug/kg	5.02	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA010

Collected: 5/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		11000	mg/kg		18.8	SW846-6010B
Antimony	U	9.27	mg/kg		9.27	SW846-6010B
Arsenic		1.32	mg/kg		0.94	SW846-6020
Barium	N	111	mg/kg		2.35	SW846-6010B
Beryllium	U	0.47	mg/kg		0.47	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium	*N	780	mg/kg		94	SW846-6010B
Chromium		10.2	mg/kg		2.35	SW846-6010B
Cobalt		4.88	mg/kg		2.35	SW846-6010B
Copper	NX	9.85	mg/kg		2.35	SW846-6020
Iron		9210	mg/kg		18.8	SW846-6010B
Lead		4.7	mg/kg		0.94	SW846-6020
Magnesium	*N	1100	mg/kg		4.7	SW846-6010B
Manganese	*N	225	mg/kg		2.35	SW846-6010B
Mercury	U	0.015	mg/kg		0.015	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	N	10.5	mg/kg		4.7	SW846-6010B
Selenium	U	0.94	mg/kg		0.94	SW846-6020
Silver	U	2.35	mg/kg		2.35	SW846-6010B
Sodium		188	mg/kg		94	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	BU	0.94	mg/kg		0.94	SW846-6020
Vanadium	X	19.1	mg/kg		2.35	SW846-6010B
Zinc	N	30.9	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	UY	100	ug/kg		100	SW846-8082
PCB-1221	UY	100	ug/kg		100	SW846-8082
PCB-1232	UY	100	ug/kg		100	SW846-8082
PCB-1242	UY	100	ug/kg		100	SW846-8082
PCB-1248	UY	100	ug/kg		100	SW846-8082
PCB-1254	UY	100	ug/kg		100	SW846-8082
PCB-1260	UY	100	ug/kg		100	SW846-8082
PCB-1268	UY	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	UY	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235		0.0509	pCi/g	0.0217	0.0402	RL-7128
Alpha activity		11.2	pCi/g	2.64	1.92	RL-7111
Americium-241	U	-0.0071	pCi/g	0.0053	0.0204	RL-7128
Beta activity		13.7	pCi/g	1.56	1.8	RL-7111
Cesium-137	U	-0.0205	pCi/g	0.0409	0.0593	RL-7124
Cobalt-60	U	-0.0181	pCi/g	0.0361	0.0544	RL-7124
Neptunium-237	U	-0.0075	pCi/g	0.007	0.0295	RL-7128
Plutonium-238	U	-0.002	pCi/g	0.0043	0.0157	RL-7128
Plutonium-239/240	U	-0.0010	pCi/g	0.0031	0.0175	RL-7128
Technetium-99	U	0.853	pCi/g	1.17	1.77	RL-7100
Thorium-228		1.33	pCi/g	0.115	0.0909	RL-7128
Thorium-230		0.487	pCi/g	0.0751	0.118	RL-7128
Thorium-232		0.54	pCi/g	0.0738	0.0714	RL-7128
Thorium-234		5.8	pCi/g	0.818	0.812	RL-7124

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Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium		2.21	pCi/g	0.961	0.283	RL-7128
Uranium-234		0.319	pCi/g	0.0547	0.129	RL-7128
Uranium-235		0.428	wt %	0.19		RL-7128
Uranium-238		1.84	pCi/g	0.117	0.114	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	U	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	U	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	U	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	U	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	U	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	U	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	U	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	U	470	ug/kg		470	SW846-8270
2-Chlorophenol	U	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	U	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	U	470	ug/kg		470	SW846-8270
2-Methylphenol	U	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
2-Nitrophenol	U	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	U	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	U	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	U	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	U	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	U	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
4-Nitrophenol	U	470	ug/kg		470	SW846-8270
Acenaphthene	U	470	ug/kg		470	SW846-8270
Acenaphthylene	U	470	ug/kg		470	SW846-8270
Anthracene	U	470	ug/kg		470	SW846-8270
Benz(a)anthracene	U	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	U	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	U	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	U	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	U	470	ug/kg		470	SW846-8270
Benzoic acid	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	U	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	U	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	U	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	U	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	U	470	ug/kg		470	SW846-8270
Chrysene	U	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	U	470	ug/kg		470	SW846-8270
Dibenzofuran	U	470	ug/kg		470	SW846-8270
Diethyl phthalate	UX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	U	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BX	4400	ug/kg		470	SW846-8270
Di-n-octylphthalate	U	470	ug/kg		470	SW846-8270
Fluoranthene	U	470	ug/kg		470	SW846-8270
Fluorene	U	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	U	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	U	470	ug/kg	470	SW846-8270
Hexachloroethane	U	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	U	470	ug/kg	470	SW846-8270
Isophorone	U	470	ug/kg	470	SW846-8270
m,p-Cresol	U	470	ug/kg	470	SW846-8270
Naphthalene	U	470	ug/kg	470	SW846-8270
Nitrobenzene	U	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	U	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	U	470	ug/kg	470	SW846-8270
Pentachlorophenol	U	470	ug/kg	470	SW846-8270
Phenanthrene	U	470	ug/kg	470	SW846-8270
Phenol	U	470	ug/kg	470	SW846-8270
Pyrene	U	470	ug/kg	470	SW846-8270
Pyridine	U	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	4.99	ug/kg	4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	U	4.99	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	JU	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene		32.5	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

007-010**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.99 ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99 ug/kg	4.99	SW846-8260
Toluene	U	4.99 ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99 ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99 ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.99 ug/kg	4.99	SW846-8260
Trichloroethene		10.8 ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99 ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99 ug/kg	4.99	SW846-8260
Vinyl chloride		7.5 ug/kg	4.99	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA015

Collected: 5/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		6100	mg/kg		18.8	SW846-6010B
Antimony	U	9.74	mg/kg		9.74	SW846-6010B
Arsenic		1.35	mg/kg		0.938	SW846-6020
Barium	N	87.1	mg/kg		2.34	SW846-6010B
Beryllium	U	0.469	mg/kg		0.469	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium	*N	1260	mg/kg		93.8	SW846-6010B
Chromium		10.3	mg/kg		2.34	SW846-6010B
Cobalt	U	2.34	mg/kg		2.34	SW846-6010B
Copper	NX	6.11	mg/kg		2.34	SW846-6020
Iron		7180	mg/kg		18.8	SW846-6010B
Lead		4.73	mg/kg		0.938	SW846-6020
Magnesium	*N	1150	mg/kg		4.69	SW846-6010B
Manganese	*N	52.4	mg/kg		2.34	SW846-6010B
Mercury		0.026	mg/kg		0.02	SW846-7471
Molybdenum	U	2.34	mg/kg		2.34	SW846-6010B
Nickel	N	8.2	mg/kg		4.69	SW846-6010B
Selenium	U	0.938	mg/kg		0.938	SW846-6020
Silver	U	2.34	mg/kg		2.34	SW846-6010B
Sodium		252	mg/kg		93.8	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	BU	0.938	mg/kg		0.938	SW846-6020
Vanadium	X	14.3	mg/kg		2.34	SW846-6010B
Zinc	N	21.4	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	UY	90	ug/kg		90	SW846-8082
PCB-1221	UY	90	ug/kg		90	SW846-8082
PCB-1232	UY	90	ug/kg		90	SW846-8082
PCB-1242	UY	90	ug/kg		90	SW846-8082
PCB-1248	UY	90	ug/kg		90	SW846-8082
PCB-1254	UY	90	ug/kg		90	SW846-8082
PCB-1260	UY	90	ug/kg		90	SW846-8082
PCB-1268	UY	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	UY	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00218	pCi/g	0.0088	0.0382	RL-7128
Alpha activity		5.45	pCi/g	1.72	1.69	RL-7111
Americium-241	U	-0.0115	pCi/g	0.0005	0.0217	RL-7128
Beta activity		3.85	pCi/g	0.666	1.76	RL-7111
Cesium-137	U	0.00389	pCi/g	0.0078	0.0499	RL-7124
Cobalt-60	U	-0.0108	pCi/g	0.0216	0.0485	RL-7124
Neptunium-237	U	-0.0105	pCi/g	0.0087	0.0279	RL-7128
Plutonium-238	U	-0.0034	pCi/g	0.0032	0.0169	RL-7128
Plutonium-239/240	U	-0.0037	pCi/g	0.0023	0.0177	RL-7128
Technetium-99	U	1.29	pCi/g	1.18	1.77	RL-7100
Thorium-228		1.33	pCi/g	0.117	0.0909	RL-7128
Thorium-230		0.33	pCi/g	0.0658	0.118	RL-7128
Thorium-232		0.409	pCi/g	0.0654	0.071	RL-7128
Thorium-234		1.59	pCi/g	0.731	0.616	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.181	pCi/g	0.366	0.281	RL-7128
Uranium-234	U	0.0741	pCi/g	0.0316	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.105	pCi/g	0.0335	0.113	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	U	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	U	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	U	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	U	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	U	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	U	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	U	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	U	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	U	470	ug/kg		470	SW846-8270
2-Chlorophenol	U	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	U	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	U	470	ug/kg		470	SW846-8270
2-Methylphenol	U	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
2-Nitrophenol	U	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	U	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	U	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	U	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	U	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	U	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	U	470	ug/kg		470	SW846-8270
4-Nitrophenol	U	470	ug/kg		470	SW846-8270
Acenaphthene	U	470	ug/kg		470	SW846-8270
Acenaphthylene	U	470	ug/kg		470	SW846-8270
Anthracene	U	470	ug/kg		470	SW846-8270
Benz(a)anthracene	U	470	ug/kg		470	SW846-8270
Benzenemethanol	JU	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	U	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	U	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	U	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	U	470	ug/kg		470	SW846-8270
Benzoic acid	UX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	U	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	U	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	U	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	U	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	U	470	ug/kg		470	SW846-8270
Chrysene	U	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	U	470	ug/kg		470	SW846-8270
Dibenzofuran	U	470	ug/kg		470	SW846-8270
Diethyl phthalate	U	470	ug/kg		470	SW846-8270
Dimethyl phthalate	U	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BUX	470	ug/kg		470	SW846-8270
Di-n-octylphthalate	U	470	ug/kg		470	SW846-8270
Fluoranthene	U	470	ug/kg		470	SW846-8270
Fluorene	U	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	U	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	U	470	ug/kg	470	SW846-8270
Hexachloroethane	U	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	U	470	ug/kg	470	SW846-8270
Isophorone	U	470	ug/kg	470	SW846-8270
m,p-Cresol	U	470	ug/kg	470	SW846-8270
Naphthalene	U	470	ug/kg	470	SW846-8270
Nitrobenzene	U	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	U	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	U	470	ug/kg	470	SW846-8270
Pentachlorophenol	U	470	ug/kg	470	SW846-8270
Phenanthrene	U	470	ug/kg	470	SW846-8270
Phenol	U	470	ug/kg	470	SW846-8270
Pyrene	U	470	ug/kg	470	SW846-8270
Pyridine	U	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,1,2-Tetrachloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1,2-Trichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,1-Dichloroethene	U	5.02	ug/kg	5.02	SW846-8260
1,2,3-Trichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dibromoethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloroethane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dichloropropane	U	5.02	ug/kg	5.02	SW846-8260
1,2-Dimethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
2-Butanone	U	5.02	ug/kg	5.02	SW846-8260
2-Chloroethyl vinyl ether	JU	5.02	ug/kg	5.02	SW846-8260
2-Hexanone	U	5.02	ug/kg	5.02	SW846-8260
4-Methyl-2-pentanone	U	5.02	ug/kg	5.02	SW846-8260
Acetone	U	5.02	ug/kg	5.02	SW846-8260
Acrolein	JU	5.02	ug/kg	5.02	SW846-8260
Acrylonitrile	U	5.02	ug/kg	5.02	SW846-8260
Benzene	U	5.02	ug/kg	5.02	SW846-8260
Bromodichloromethane	U	5.02	ug/kg	5.02	SW846-8260
Bromoform	U	5.02	ug/kg	5.02	SW846-8260
Bromomethane	U	5.02	ug/kg	5.02	SW846-8260
Carbon disulfide	JU	5.02	ug/kg	5.02	SW846-8260
Carbon tetrachloride	U	5.02	ug/kg	5.02	SW846-8260
Chlorobenzene	U	5.02	ug/kg	5.02	SW846-8260
Chloroethane	U	5.02	ug/kg	5.02	SW846-8260
Chloroform	U	5.02	ug/kg	5.02	SW846-8260
Chloromethane	U	5.02	ug/kg	5.02	SW846-8260
cis-1,2-Dichloroethene		12.9	ug/kg	5.02	SW846-8260
cis-1,3-Dichloropropene	U	5.02	ug/kg	5.02	SW846-8260
Dibromochloromethane	U	5.02	ug/kg	5.02	SW846-8260
Dibromomethane	U	5.02	ug/kg	5.02	SW846-8260
Dichlorodifluoromethane	JU	5.02	ug/kg	5.02	SW846-8260
Ethyl methacrylate	U	5.02	ug/kg	5.02	SW846-8260
Ethylbenzene	U	5.02	ug/kg	5.02	SW846-8260
Iodomethane	U	5.02	ug/kg	5.02	SW846-8260
m,p-Xylene	U	10	ug/kg	10	SW846-8260
Methylene chloride	U	5.02	ug/kg	5.02	SW846-8260

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BGOU07-SWMU7V Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.02 ug/kg	5.02	SW846-8260
Tetrachloroethene	U	5.02 ug/kg	5.02	SW846-8260
Toluene	U	5.02 ug/kg	5.02	SW846-8260
trans-1,2-Dichloroethene	U	5.02 ug/kg	5.02	SW846-8260
trans-1,3-Dichloropropene	U	5.02 ug/kg	5.02	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.02 ug/kg	5.02	SW846-8260
Trichloroethene	U	5.02 ug/kg	5.02	SW846-8260
Trichlorofluoromethane	U	5.02 ug/kg	5.02	SW846-8260
Vinyl acetate	U	5.02 ug/kg	5.02	SW846-8260
Vinyl chloride		6.99 ug/kg	5.02	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA030

Collected: 5/10/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		4250	mg/kg		18.8	SW846-6010B
Antimony	U	9.91	mg/kg		9.91	SW846-6010B
Arsenic		1.66	mg/kg		0.938	SW846-6020
Barium	N	18.2	mg/kg		2.35	SW846-6010B
Beryllium	U	0.469	mg/kg		0.469	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium	*N	850	mg/kg		93.8	SW846-6010B
Chromium		4.65	mg/kg		2.35	SW846-6010B
Cobalt		3.47	mg/kg		2.35	SW846-6010B
Copper	NX	3.37	mg/kg		2.35	SW846-6020
Iron		8890	mg/kg		18.8	SW846-6010B
Lead		9.5	mg/kg		0.938	SW846-6020
Magnesium	*N	412	mg/kg		4.69	SW846-6010B
Manganese	*N	129	mg/kg		2.35	SW846-6010B
Mercury	B	0.017	mg/kg		0.015	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	NU	4.69	mg/kg		4.69	SW846-6010B
Selenium	U	0.938	mg/kg		0.938	SW846-6020
Silver	U	2.35	mg/kg		2.35	SW846-6010B
Sodium		123	mg/kg		93.8	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	B	1.15	mg/kg		0.938	SW846-6020
Vanadium	X	13.3	mg/kg		2.35	SW846-6010B
Zinc	NU	18.8	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	UY	100	ug/kg		100	SW846-8082
PCB-1221	UY	100	ug/kg		100	SW846-8082
PCB-1232	UY	100	ug/kg		100	SW846-8082
PCB-1242	UY	100	ug/kg		100	SW846-8082
PCB-1248	UY	100	ug/kg		100	SW846-8082
PCB-1254	UY	100	ug/kg		100	SW846-8082
PCB-1260	UY	100	ug/kg		100	SW846-8082
PCB-1268	UY	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	UY	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0117	pCi/g	0.0105	0.0397	RL-7128
Alpha activity		5.19	pCi/g	1.58	1.46	RL-7111
Americium-241	U	-0.0028	pCi/g	0.0091	0.0224	RL-7128
Beta activity		2.71	pCi/g	0.506	1.69	RL-7111
Cesium-137	U	0.00029	pCi/g	0.0006	0.0503	RL-7124
Cobalt-60	U	-0.0091	pCi/g	0.0182	0.0439	RL-7124
Neptunium-237	U	-0.004	pCi/g	2E-09	0.0316	RL-7128
Plutonium-238	U	-0.0017	pCi/g	0.0048	0.0166	RL-7128
Plutonium-239/240	U	0.00593	pCi/g	0.0076	0.0187	RL-7128
Technetium-99	U	1.26	pCi/g	1.17	1.77	RL-7100
Thorium-228		1.22	pCi/g	0.113	0.0911	RL-7128
Thorium-230		0.241	pCi/g	0.0601	0.121	RL-7128
Thorium-232		0.464	pCi/g	0.0697	0.0745	RL-7128
Thorium-234	U	1.08	pCi/g	2.17	0.884	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.39	pCi/g	0.309	0.281	RL-7128
Uranium-234	U	0.128	pCi/g	0.0376	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.251	pCi/g	0.0451	0.113	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	U	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	U	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	U	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	U	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	U	480	ug/kg		480	SW846-8270
2-Chlorophenol	U	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	U	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	U	480	ug/kg		480	SW846-8270
2-Methylphenol	U	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
2-Nitrophenol	U	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	U	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	U	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	U	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	U	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	U	480	ug/kg		480	SW846-8270
4-Nitrophenol	U	480	ug/kg		480	SW846-8270
Acenaphthene	U	480	ug/kg		480	SW846-8270
Acenaphthylene	U	480	ug/kg		480	SW846-8270
Anthracene	U	480	ug/kg		480	SW846-8270
Benz(a)anthracene	U	480	ug/kg		480	SW846-8270
Benzenemethanol	JU	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	U	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	U	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	U	480	ug/kg		480	SW846-8270
Benzoic acid	UX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	U	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	U	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	U	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	U	480	ug/kg		480	SW846-8270
Chrysene	U	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	U	480	ug/kg		480	SW846-8270
Dibenzofuran	U	480	ug/kg		480	SW846-8270
Diethyl phthalate	UX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	U	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	B	1300	ug/kg		480	SW846-8270
Di-n-octylphthalate	U	480	ug/kg		480	SW846-8270
Fluoranthene	U	480	ug/kg		480	SW846-8270
Fluorene	U	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	U	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	U	480	ug/kg	480	SW846-8270
Hexachloroethane	U	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	U	480	ug/kg	480	SW846-8270
Isophorone	U	480	ug/kg	480	SW846-8270
m,p-Cresol	U	480	ug/kg	480	SW846-8270
Naphthalene	U	480	ug/kg	480	SW846-8270
Nitrobenzene	U	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	U	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	U	480	ug/kg	480	SW846-8270
Pentachlorophenol	U	480	ug/kg	480	SW846-8270
Phenanthrene	U	480	ug/kg	480	SW846-8270
Phenol	U	480	ug/kg	480	SW846-8270
Pyrene	U	480	ug/kg	480	SW846-8270
Pyridine	U	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	JU	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene		43.5	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7V Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.04	ug/kg	5.04	SW846-8260
Trichloroethene		20.5	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride		35.1	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA045

Collected: 5/11/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		3860	mg/kg		19.5	SW846-6010B
Antimony	U	9.87	mg/kg		9.87	SW846-6010B
Arsenic		2.99	mg/kg		0.977	SW846-6020
Barium	N	14.5	mg/kg		2.44	SW846-6010B
Beryllium	U	0.488	mg/kg		0.488	SW846-6010B
Cadmium	U	1.95	mg/kg		1.95	SW846-6010B
Calcium	*N	568	mg/kg		97.7	SW846-6010B
Chromium		15	mg/kg		2.44	SW846-6010B
Cobalt		3.23	mg/kg		2.44	SW846-6010B
Copper	NX	4.03	mg/kg		2.44	SW846-6020
Iron		20600	mg/kg		19.5	SW846-6010B
Lead		3.75	mg/kg		0.977	SW846-6020
Magnesium	*N	290	mg/kg		4.88	SW846-6010B
Manganese	*N	44.1	mg/kg		2.44	SW846-6010B
Mercury	BU	0.012	mg/kg		0.012	SW846-7471
Molybdenum	U	2.44	mg/kg		2.44	SW846-6010B
Nickel	N	6.96	mg/kg		4.88	SW846-6010B
Selenium	U	0.977	mg/kg		0.977	SW846-6020
Silver	U	2.44	mg/kg		2.44	SW846-6010B
Sodium	U	97.7	mg/kg		97.7	SW846-6010B
Thallium	U	1.95	mg/kg		1.95	SW846-6020
Uranium	B	1.3	mg/kg		0.977	SW846-6020
Vanadium	X	21.8	mg/kg		2.44	SW846-6010B
Zinc	NU	19.5	mg/kg		19.5	SW846-6010B
PCCB						
PCB-1016	UY	90	ug/kg		90	SW846-8082
PCB-1221	UY	90	ug/kg		90	SW846-8082
PCB-1232	UY	90	ug/kg		90	SW846-8082
PCB-1242	UY	90	ug/kg		90	SW846-8082
PCB-1248	UY	90	ug/kg		90	SW846-8082
PCB-1254	UY	90	ug/kg		90	SW846-8082
PCB-1260	UY	90	ug/kg		90	SW846-8082
PCB-1268	UY	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	UY	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.0113	pCi/g	0.02	0.0485	RL-7128
Alpha activity		4.79	pCi/g	1.57	1.65	RL-7111
Americium-241	U	-0.0085	pCi/g	0.0046	0.0211	RL-7128
Beta activity		4.54	pCi/g	0.748	1.75	RL-7111
Cesium-137	U	0.00307	pCi/g	0.0061	0.0419	RL-7124
Cobalt-60	U	0.00345	pCi/g	0.0069	0.0319	RL-7124
Neptunium-237	U	-0.0062	pCi/g	0.0045	0.0298	RL-7128
Plutonium-238	U	-0.0035	pCi/g	0.0031	0.0156	RL-7128
Plutonium-239/240	U	-0.0037	pCi/g	0.0022	0.0169	RL-7128
Technetium-99	U	1.41	pCi/g	1.17	1.77	RL-7100
Thorium-228		0.547	pCi/g	0.0689	0.0898	RL-7128
Thorium-230		0.267	pCi/g	0.0541	0.118	RL-7128
Thorium-232		0.205	pCi/g	0.0422	0.0779	RL-7128
Thorium-234		0.9	pCi/g	0.456	0.588	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	1.68	pCi/g	2.51	0.306	RL-7128
Uranium-234		0.327	pCi/g	0.0866	0.137	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		1.34	pCi/g	0.16	0.121	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	U	490	ug/kg		490	SW846-8270
2-Chlorophenol	U	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	U	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	U	490	ug/kg		490	SW846-8270
2-Methylphenol	U	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
2-Nitrophenol	U	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	U	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	U	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	U	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Nitrophenol	U	490	ug/kg		490	SW846-8270
Acenaphthene	U	490	ug/kg		490	SW846-8270
Acenaphthylene	U	490	ug/kg		490	SW846-8270
Anthracene	U	490	ug/kg		490	SW846-8270
Benz(a)anthracene	U	490	ug/kg		490	SW846-8270
Benzenemethanol	JU	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	U	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	U	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzoic acid	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	U	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	U	490	ug/kg		490	SW846-8270
Chrysene	U	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	U	490	ug/kg		490	SW846-8270
Dibenzofuran	U	490	ug/kg		490	SW846-8270
Diethyl phthalate	U	490	ug/kg		490	SW846-8270
Dimethyl phthalate	U	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	BUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	U	490	ug/kg		490	SW846-8270
Fluoranthene	U	490	ug/kg		490	SW846-8270
Fluorene	U	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	U	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	U	490	ug/kg	490	SW846-8270
Hexachloroethane	U	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	U	490	ug/kg	490	SW846-8270
Isophorone	U	490	ug/kg	490	SW846-8270
m,p-Cresol	U	490	ug/kg	490	SW846-8270
Naphthalene	U	490	ug/kg	490	SW846-8270
Nitrobenzene	U	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	U	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	U	490	ug/kg	490	SW846-8270
Pentachlorophenol	U	490	ug/kg	490	SW846-8270
Phenanthrene	U	490	ug/kg	490	SW846-8270
Phenol	U	490	ug/kg	490	SW846-8270
Pyrene	U	490	ug/kg	490	SW846-8270
Pyridine	U	490	ug/kg	490	SW846-8270
VOA					
1,1,1,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,1-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1,2-Trichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,1-Dichloroethene	U	4.99	ug/kg	4.99	SW846-8260
1,2,3-Trichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dibromoethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloroethane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dichloropropane	U	4.99	ug/kg	4.99	SW846-8260
1,2-Dimethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
2-Butanone	U	4.99	ug/kg	4.99	SW846-8260
2-Chloroethyl vinyl ether	JU	4.99	ug/kg	4.99	SW846-8260
2-Hexanone	U	4.99	ug/kg	4.99	SW846-8260
4-Methyl-2-pentanone	U	4.99	ug/kg	4.99	SW846-8260
Acetone	U	4.99	ug/kg	4.99	SW846-8260
Acrolein	JU	4.99	ug/kg	4.99	SW846-8260
Acrylonitrile	U	4.99	ug/kg	4.99	SW846-8260
Benzene	U	4.99	ug/kg	4.99	SW846-8260
Bromodichloromethane	U	4.99	ug/kg	4.99	SW846-8260
Bromoform	U	4.99	ug/kg	4.99	SW846-8260
Bromomethane	U	4.99	ug/kg	4.99	SW846-8260
Carbon disulfide	JU	4.99	ug/kg	4.99	SW846-8260
Carbon tetrachloride	U	4.99	ug/kg	4.99	SW846-8260
Chlorobenzene	U	4.99	ug/kg	4.99	SW846-8260
Chloroethane	U	4.99	ug/kg	4.99	SW846-8260
Chloroform	U	4.99	ug/kg	4.99	SW846-8260
Chloromethane	U	4.99	ug/kg	4.99	SW846-8260
cis-1,2-Dichloroethene		27.4	ug/kg	4.99	SW846-8260
cis-1,3-Dichloropropene	U	4.99	ug/kg	4.99	SW846-8260
Dibromochloromethane	U	4.99	ug/kg	4.99	SW846-8260
Dibromomethane	U	4.99	ug/kg	4.99	SW846-8260
Dichlorodifluoromethane	JU	4.99	ug/kg	4.99	SW846-8260
Ethyl methacrylate	U	4.99	ug/kg	4.99	SW846-8260
Ethylbenzene	U	4.99	ug/kg	4.99	SW846-8260
Iodomethane	U	4.99	ug/kg	4.99	SW846-8260
m,p-Xylene	U	9.99	ug/kg	9.99	SW846-8260
Methylene chloride	U	4.99	ug/kg	4.99	SW846-8260

007-010**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.99 ug/kg	4.99	SW846-8260
Tetrachloroethene	U	4.99 ug/kg	4.99	SW846-8260
Toluene	U	4.99 ug/kg	4.99	SW846-8260
trans-1,2-Dichloroethene	U	4.99 ug/kg	4.99	SW846-8260
trans-1,3-Dichloropropene	U	4.99 ug/kg	4.99	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	4.99 ug/kg	4.99	SW846-8260
Trichloroethene		129 ug/kg	4.99	SW846-8260
Trichlorofluoromethane	U	4.99 ug/kg	4.99	SW846-8260
Vinyl acetate	U	4.99 ug/kg	4.99	SW846-8260
Vinyl chloride	U	4.99 ug/kg	4.99	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010SA060

Collected: 5/11/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		3840	mg/kg		19.1	SW846-6010B
Antimony	U	9.45	mg/kg		9.45	SW846-6010B
Arsenic		1.49	mg/kg		0.954	SW846-6020
Barium	N	19.2	mg/kg		2.39	SW846-6010B
Beryllium	U	0.477	mg/kg		0.477	SW846-6010B
Cadmium	U	1.91	mg/kg		1.91	SW846-6010B
Calcium	*N	259	mg/kg		95.4	SW846-6010B
Chromium		4.54	mg/kg		2.39	SW846-6010B
Cobalt		2.93	mg/kg		2.39	SW846-6010B
Copper	NUX	2.39	mg/kg		2.39	SW846-6020
Iron		6730	mg/kg		19.1	SW846-6010B
Lead		2.4	mg/kg		0.954	SW846-6020
Magnesium	*N	252	mg/kg		4.77	SW846-6010B
Manganese	*N	54.8	mg/kg		2.39	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.39	mg/kg		2.39	SW846-6010B
Nickel	NU	4.77	mg/kg		4.77	SW846-6010B
Selenium	U	0.954	mg/kg		0.954	SW846-6020
Silver	U	2.39	mg/kg		2.39	SW846-6010B
Sodium	U	95.4	mg/kg		95.4	SW846-6010B
Thallium	U	1.91	mg/kg		1.91	SW846-6020
Uranium	BU	0.954	mg/kg		0.954	SW846-6020
Vanadium	X	11.7	mg/kg		2.39	SW846-6010B
Zinc	NU	19.1	mg/kg		19.1	SW846-6010B
PCCB						
PCB-1016	UY	100	ug/kg		100	SW846-8082
PCB-1221	UY	100	ug/kg		100	SW846-8082
PCB-1232	UY	100	ug/kg		100	SW846-8082
PCB-1242	UY	100	ug/kg		100	SW846-8082
PCB-1248	UY	100	ug/kg		100	SW846-8082
PCB-1254	UY	100	ug/kg		100	SW846-8082
PCB-1260	UY	100	ug/kg		100	SW846-8082
PCB-1268	UY	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	UY	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	-0.0016	pCi/g	0.0012	0.0388	RL-7128
Alpha activity	U	1.31	pCi/g	0.675	1.4	RL-7111
Americium-241	U	-0.008	pCi/g	0.0076	0.0206	RL-7128
Beta activity		2	pCi/g	0.396	1.67	RL-7111
Cesium-137	U	-0.0032	pCi/g	0.0064	0.0514	RL-7124
Cobalt-60	U	-0.0006	pCi/g	0.0013	0.0378	RL-7124
Neptunium-237	U	-0.0089	pCi/g	0.0093	0.0325	RL-7128
Plutonium-238	U	-0.0062	pCi/g	0.0023	0.0162	RL-7128
Plutonium-239/240	U	-0.0051	pCi/g	0.0051	0.0183	RL-7128
Technetium-99	U	0.366	pCi/g	1.15	1.77	RL-7100
Thorium-228		0.844	pCi/g	0.0921	0.0905	RL-7128
Thorium-230	U	0.0315	pCi/g	0.0373	0.12	RL-7128
Thorium-232		0.158	pCi/g	0.042	0.0709	RL-7128
Thorium-234		1.65	pCi/g	0.793	0.609	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.0413	pCi/g	0.0843	0.281	RL-7128
Uranium-234	U	0.0263	pCi/g	0.0272	0.129	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0167	pCi/g	0.0241	0.113	RL-7128
SVOA						
1,2,4-Trichlorobenzene	UY	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	U	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	U	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	U	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	U	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	U	490	ug/kg		490	SW846-8270
2-Chlorophenol	U	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	U	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	U	490	ug/kg		490	SW846-8270
2-Methylphenol	U	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
2-Nitrophenol	U	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	U	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	U	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	U	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	U	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	U	490	ug/kg		490	SW846-8270
4-Nitrophenol	U	490	ug/kg		490	SW846-8270
Acenaphthene	U	490	ug/kg		490	SW846-8270
Acenaphthylene	U	490	ug/kg		490	SW846-8270
Anthracene	U	490	ug/kg		490	SW846-8270
Benz(a)anthracene	U	490	ug/kg		490	SW846-8270
Benzenemethanol	JU	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	U	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	U	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	U	490	ug/kg		490	SW846-8270
Benzoic acid	UX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	U	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	U	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	U	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	U	490	ug/kg		490	SW846-8270
Chrysene	U	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	U	490	ug/kg		490	SW846-8270
Dibenzofuran	U	490	ug/kg		490	SW846-8270
Diethyl phthalate	U	490	ug/kg		490	SW846-8270
Dimethyl phthalate	U	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	B	1300	ug/kg		490	SW846-8270
Di-n-octylphthalate	U	490	ug/kg		490	SW846-8270
Fluoranthene	U	490	ug/kg		490	SW846-8270
Fluorene	U	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	U	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	U	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	U	490	ug/kg	490	SW846-8270
Hexachloroethane	U	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	U	490	ug/kg	490	SW846-8270
Isophorone	U	490	ug/kg	490	SW846-8270
m,p-Cresol	U	490	ug/kg	490	SW846-8270
Naphthalene	U	490	ug/kg	490	SW846-8270
Nitrobenzene	U	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	U	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	U	490	ug/kg	490	SW846-8270
Pentachlorophenol	U	490	ug/kg	490	SW846-8270
Phenanthrene	U	490	ug/kg	490	SW846-8270
Phenol	U	490	ug/kg	490	SW846-8270
Pyrene	U	490	ug/kg	490	SW846-8270
Pyridine	U	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	JU	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	U	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	JU	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

007-010**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	JU	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

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007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA030

Collected: 5/11/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		147	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.276	mg/L		0.01	SW846-6020
Barium		0.751	mg/L		0.005	SW846-6020
Beryllium		0.00595	mg/L		0.001	SW846-6020
Cadmium	X	0.00204	mg/L		0.0006	SW846-6020
Calcium		141	mg/L		1	SW846-6010B
Chromium		0.274	mg/L		0.1	SW846-6020
Cobalt	N	0.0475	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		142	mg/L		0.05	SW846-6010B
Lead		0.0597	mg/L		0.0013	SW846-6020
Magnesium		59.5	mg/L		0.025	SW846-6010B
Manganese		2.61	mg/L		0.05	SW846-6020
Mercury	JW	8.5E-05	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0348	mg/L		0.001	SW846-6020
Nickel	N	0.112	mg/L		0.05	SW846-6020
Selenium		0.032	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	148	mg/L		5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.239	mg/L		0.01	SW846-6020
Vanadium		0.345	mg/L		0.2	SW846-6020
Zinc	X	1.17	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.316	mg/L		0.01	SW846-6020
Barium, Dissolved		0.588	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		142	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0316	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		26.4	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		56.2	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	2.9	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0103	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.053	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.0246	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		152	mg/L		5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved		0.0366	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		1	mg/L		0.2	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB					
PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248		0.22	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	X	0.22	ug/L	0.1	SW846-8082
RADS					
Activity of U-235		0.25	pCi/L	0.0709	0.0467 RL-7128
Activity of U-235	T	2.28	pCi/L	0.479	0.176 RL-7128
Alpha activity	X	364	pCi/L	21.4	9.96 SW846-9310
Americium-241	U	0.00681	pCi/L	0.0186	0.0913 RL-7128
Beta activity	X	316	pCi/L	10.7	10.6 SW846-9310
Cesium-137	U	-0.494	pCi/L	0.988	0.794 RL-7124
Neptunium-237	U	-0.018	pCi/L	0.0164	0.0689 RL-7128
Plutonium-238	U	-0.0023	pCi/L	0	0.0293 RL-7128
Plutonium-239/240	U	-0.0041	pCi/L	0.0004	0.0308 RL-7128
Technetium-99	B	19.6	pCi/L	10.6	14.8 RL-7100
Thorium-228	U	0.134	pCi/L	0.0617	0.138 RL-7128
Thorium-230	U	0.077	pCi/L	0.0484	0.213 RL-7128
Thorium-232	U	0.0373	pCi/L	0.0264	0.0698 RL-7128
Thorium-234		64.4	pCi/L	21.8	17.6 RL-7124
Uranium	T	146	pCi/L	32.4	0.804 RL-7128
Uranium-234		1.35	pCi/L	0.15	0.357 RL-7128
Uranium-234	T	18.8	pCi/L	1.22	0.462 RL-7128
Uranium-238		9.06	pCi/L	0.375	0.0669 RL-7128
Uranium-238	T	125	pCi/L	3.13	0.167 RL-7128
SVOA					
1,2,4-Trichlorobenzene	JU	4.9	ug/L	4.9	SW846-8270
1,2-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,3-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,4-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
2,4,5-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4,6-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dimethylphenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2,6-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2-Chloronaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Chlorophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methylnaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Methylphenol	U	4.9	ug/L	4.9	SW846-8270
2-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
2-Nitrophenol	U	4.9	ug/L	4.9	SW846-8270
3,3'-Dichlorobenzidine	U	4.9	ug/L	4.9	SW846-8270
3-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Bromophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270
4-Chloro-3-methylphenol	U	4.9	ug/L	4.9	SW846-8270
4-Chlorobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Chlorophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.9 ug/L	4.9	SW846-8270
4-Nitrophenol	JU	4.9 ug/L	4.9	SW846-8270
Acenaphthene	U	4.9 ug/L	4.9	SW846-8270
Acenaphthylene	U	4.9 ug/L	4.9	SW846-8270
Anthracene	U	4.9 ug/L	4.9	SW846-8270
Benz(a)anthracene	U	4.9 ug/L	4.9	SW846-8270
Benzenemethanol	JU	4.9 ug/L	4.9	SW846-8270
Benzo(a)pyrene	U	4.9 ug/L	4.9	SW846-8270
Benzo(b)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzo(ghi)perylene	U	4.9 ug/L	4.9	SW846-8270
Benzo(k)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzoic acid	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethoxy)methane	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.9 ug/L	4.9	SW846-8270
Butyl benzyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Chrysene	U	4.9 ug/L	4.9	SW846-8270
Dibenz(a,h)anthracene	U	4.9 ug/L	4.9	SW846-8270
Dibenzofuran	U	4.9 ug/L	4.9	SW846-8270
Diethyl phthalate	JU	4.9 ug/L	4.9	SW846-8270
Dimethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-butyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-octylphthalate	U	4.9 ug/L	4.9	SW846-8270
Fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Fluorene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobenzene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobutadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorocyclopentadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachloroethane	U	4.9 ug/L	4.9	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.9 ug/L	4.9	SW846-8270
Isophorone	U	4.9 ug/L	4.9	SW846-8270
m,p-Cresol	U	4.9 ug/L	4.9	SW846-8270
Naphthalene	U	4.9 ug/L	4.9	SW846-8270
Nitrobenzene	U	4.9 ug/L	4.9	SW846-8270
N-Nitroso-di-n-propylamine	U	4.9 ug/L	4.9	SW846-8270
N-Nitrosodiphenylamine	U	4.9 ug/L	4.9	SW846-8270
Pentachlorophenol	U	4.9 ug/L	4.9	SW846-8270
Phenanthrene	U	4.9 ug/L	4.9	SW846-8270
Phenol	JU	4.9 ug/L	4.9	SW846-8270
Pyrene	U	4.9 ug/L	4.9	SW846-8270
Pyridine	U	4.9 ug/L	4.9	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	1000 ug/L	1000	SW846-8260
1,1,1-Trichloroethane	U	1000 ug/L	1000	SW846-8260
1,1,2,2-Tetrachloroethane	U	1000 ug/L	1000	SW846-8260
1,1,2-Trichloroethane	U	1000 ug/L	1000	SW846-8260
1,1-Dichloroethane	U	1000 ug/L	1000	SW846-8260
1,1-Dichloroethene	U	1000 ug/L	1000	SW846-8260
1,2,3-Trichloropropane	U	1000 ug/L	1000	SW846-8260
1,2-Dibromoethane	U	1000 ug/L	1000	SW846-8260
1,2-Dichloroethane	U	1000 ug/L	1000	SW846-8260
1,2-Dichloropropane	U	1000 ug/L	1000	SW846-8260
1,2-Dimethylbenzene	U	1000 ug/L	1000	SW846-8260
2-Butanone	U	2000 ug/L	2000	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	2000 ug/L	2000	SW846-8260
2-Hexanone	U	2000 ug/L	2000	SW846-8260
4-Methyl-2-pentanone	U	2000 ug/L	2000	SW846-8260
Acetone	U	2000 ug/L	2000	SW846-8260
Acrolein	U	2000 ug/L	2000	SW846-8260
Acrylonitrile	U	2000 ug/L	2000	SW846-8260
Benzene	U	1000 ug/L	1000	SW846-8260
Bromodichloromethane	U	1000 ug/L	1000	SW846-8260
Bromoform	U	1000 ug/L	1000	SW846-8260
Bromomethane	U	1000 ug/L	1000	SW846-8260
Carbon disulfide	U	1000 ug/L	1000	SW846-8260
Carbon tetrachloride	U	1000 ug/L	1000	SW846-8260
Chlorobenzene	U	1000 ug/L	1000	SW846-8260
Chloroethane	U	1000 ug/L	1000	SW846-8260
Chloroform	U	1000 ug/L	1000	SW846-8260
Chloromethane	JU	1000 ug/L	1000	SW846-8260
cis-1,2-Dichloroethene	D	6500 ug/L	1000	SW846-8260
cis-1,3-Dichloropropene	U	1000 ug/L	1000	SW846-8260
Dibromochloromethane	U	1000 ug/L	1000	SW846-8260
Dibromomethane	U	1000 ug/L	1000	SW846-8260
Dichlorodifluoromethane	U	1000 ug/L	1000	SW846-8260
Ethyl methacrylate	U	1000 ug/L	1000	SW846-8260
Ethylbenzene	U	1000 ug/L	1000	SW846-8260
Iodomethane	JU	1000 ug/L	1000	SW846-8260
m,p-Xylene	U	2000 ug/L	2000	SW846-8260
Methylene chloride	U	1000 ug/L	1000	SW846-8260
Styrene	U	1000 ug/L	1000	SW846-8260
Tetrachloroethene	U	1000 ug/L	1000	SW846-8260
Toluene	U	1000 ug/L	1000	SW846-8260
trans-1,2-Dichloroethene	U	1000 ug/L	1000	SW846-8260
trans-1,3-Dichloropropene	U	1000 ug/L	1000	SW846-8260
Trans-1,4-Dichloro-2-butene	U	1000 ug/L	1000	SW846-8260
Trichloroethene	D	12000 ug/L	200	SW846-8260
Trichlorofluoromethane	U	1000 ug/L	1000	SW846-8260
Vinyl acetate	U	2000 ug/L	2000	SW846-8260
Vinyl chloride	D	2600 ug/L	400	SW846-8260

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007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA060

Collected: 5/14/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		73.9	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0327	mg/L		0.01	SW846-6020
Barium		0.567	mg/L		0.005	SW846-6020
Beryllium		0.00656	mg/L		0.001	SW846-6020
Cadmium	X	0.00148	mg/L		0.0006	SW846-6020
Calcium		16.6	mg/L		1	SW846-6010B
Chromium		0.162	mg/L		0.1	SW846-6020
Cobalt	N	0.0654	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		144	mg/L		0.05	SW846-6010B
Lead		0.0279	mg/L		0.0013	SW846-6020
Magnesium		9.56	mg/L		0.025	SW846-6010B
Manganese		3.04	mg/L		0.05	SW846-6020
Mercury	JW	4.2E-05	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0283	mg/L		0.001	SW846-6020
Nickel	N	0.0743	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	28	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.0295	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	0.348	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00626	mg/L		0.001	SW846-6020
Barium, Dissolved		0.122	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		13.2	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.023	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		2.41	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		5.11	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	1.51	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00236	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0148	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		28.8	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.0524	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	0.00791	pCi/L	0.013	0.0422	RL-7128
Activity of U-235		0.279	pCi/L	0.0994	0.0854	RL-7128
Alpha activity	M	39.1	pCi/L	4.06	2.63	SW846-9310
Americium-241	U	0.00852	pCi/L	0.0287	0.155	RL-7128
Beta activity		31.1	pCi/L	1.89	2.88	SW846-9310
Cesium-137	U	0.393	pCi/L	0.785	1.17	RL-7124
Neptunium-237	U	-0.0007	pCi/L	0.0193	0.101	RL-7128
Plutonium-238	U	0.00206	pCi/L	0.0087	0.0461	RL-7128
Plutonium-239/240	U	0.00057	pCi/L	0.009	0.0475	RL-7128
Technetium-99		1.28	pCi/L	0.535	0.711	RL-7100
Thorium-228	U	0.1	pCi/L	0.0696	0.192	RL-7128
Thorium-230	U	0.0836	pCi/L	0.0656	0.319	RL-7128
Thorium-232	U	-0.0056	pCi/L	0.0113	0.109	RL-7128
Thorium-234	U	9.67	pCi/L	19.3	19.9	RL-7124
Uranium		16.4	pCi/L	6.1	0.785	RL-7128
Uranium-234	U	-0.0047	pCi/L	0.0301	0.353	RL-7128
Uranium-234		2.25	pCi/L	0.252	0.592	RL-7128
Uranium-238		0.198	pCi/L	0.0506	0.0586	RL-7128
Uranium-238		13.9	pCi/L	0.61	0.109	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	JU	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene		73 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		100 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride		16 ug/L	2	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA070

Collected: 5/14/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		82.7	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0348	mg/L		0.01	SW846-6020
Barium		1.25	mg/L		0.05	SW846-6020
Beryllium		0.0077	mg/L		0.001	SW846-6020
Cadmium	X	0.0018	mg/L		0.0006	SW846-6020
Calcium		17.3	mg/L		1	SW846-6010B
Chromium		0.308	mg/L		0.1	SW846-6020
Cobalt	N	0.124	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		189	mg/L		0.05	SW846-6010B
Lead		0.0355	mg/L		0.0013	SW846-6020
Magnesium		10.4	mg/L		0.025	SW846-6010B
Manganese		6.75	mg/L		0.05	SW846-6020
Mercury	JW	4.1E-05	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.079	mg/L		0.001	SW846-6020
Nickel	N	0.104	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	21.3	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.03	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	0.473	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00173	mg/L		0.001	SW846-6020
Barium, Dissolved		0.395	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		14.7	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0537	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		5.11	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		5.58	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	4.01	mg/L		0.05	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00671	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.029	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		21.9	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.0799	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.153	pCi/L	0.0502	0.0466	RL-7128
Activity of U-235	U	0.00442	pCi/L	0.011	0.0457	RL-7128
Alpha activity	M	32.4	pCi/L	3.71	2.69	SW846-9310
Americium-241	U	-0.0172	pCi/L	0.0062	0.09	RL-7128
Beta activity		28.1	pCi/L	1.78	2.9	SW846-9310
Cesium-137	U	-0.0413	pCi/L	0.0825	1.03	RL-7124
Neptunium-237	U	-0.0177	pCi/L	0.0148	0.0743	RL-7128
Plutonium-238	U	-0.0023	pCi/L	0	0.0279	RL-7128
Plutonium-239/240	U	-0.0093	pCi/L	0.0076	0.0315	RL-7128
Technetium-99		7.89	pCi/L	0.618	0.711	RL-7100
Thorium-228	U	0.086	pCi/L	0.0438	0.116	RL-7128
Thorium-230	U	0.015	pCi/L	0.0345	0.194	RL-7128
Thorium-232	U	0.0542	pCi/L	0.0309	0.0652	RL-7128
Thorium-234	U	8.91	pCi/L	17.8	19.5	RL-7124
Uranium		9.09	pCi/L	3.08	0.46	RL-7128
Uranium-234		1.26	pCi/L	0.131	0.353	RL-7128
Uranium-234	U	0.0277	pCi/L	0.0337	0.354	RL-7128
Uranium-238		0.158	pCi/L	0.0487	0.065	RL-7128
Uranium-238		7.68	pCi/L	0.316	0.0599	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.9	ug/L	4.9	SW846-8270
1,2-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,3-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,4-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
2,4,5-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4,6-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dimethylphenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2,6-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2-Chloronaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Chlorophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methylnaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Methylphenol	U	4.9	ug/L	4.9	SW846-8270
2-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
2-Nitrophenol	U	4.9	ug/L	4.9	SW846-8270
3,3'-Dichlorobenzidine	U	4.9	ug/L	4.9	SW846-8270
3-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Bromophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270
4-Chloro-3-methylphenol	U	4.9	ug/L	4.9	SW846-8270
4-Chlorobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Chlorophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.9 ug/L	4.9	SW846-8270
4-Nitrophenol	JU	4.9 ug/L	4.9	SW846-8270
Acenaphthene	U	4.9 ug/L	4.9	SW846-8270
Acenaphthylene	U	4.9 ug/L	4.9	SW846-8270
Anthracene	U	4.9 ug/L	4.9	SW846-8270
Benz(a)anthracene	U	4.9 ug/L	4.9	SW846-8270
Benzenemethanol	JU	4.9 ug/L	4.9	SW846-8270
Benzo(a)pyrene	U	4.9 ug/L	4.9	SW846-8270
Benzo(b)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzo(ghi)perylene	U	4.9 ug/L	4.9	SW846-8270
Benzo(k)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzoic acid	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethoxy)methane	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.9 ug/L	4.9	SW846-8270
Butyl benzyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Chrysene	U	4.9 ug/L	4.9	SW846-8270
Dibenz(a,h)anthracene	U	4.9 ug/L	4.9	SW846-8270
Dibenzofuran	U	4.9 ug/L	4.9	SW846-8270
Diethyl phthalate	JU	4.9 ug/L	4.9	SW846-8270
Dimethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-butyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-octylphthalate	U	4.9 ug/L	4.9	SW846-8270
Fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Fluorene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobenzene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobutadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorocyclopentadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachloroethane	U	4.9 ug/L	4.9	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.9 ug/L	4.9	SW846-8270
Isophorone	U	4.9 ug/L	4.9	SW846-8270
m,p-Cresol	U	4.9 ug/L	4.9	SW846-8270
Naphthalene	U	4.9 ug/L	4.9	SW846-8270
Nitrobenzene	U	4.9 ug/L	4.9	SW846-8270
N-Nitroso-di-n-propylamine	U	4.9 ug/L	4.9	SW846-8270
N-Nitrosodiphenylamine	U	4.9 ug/L	4.9	SW846-8270
Pentachlorophenol	U	4.9 ug/L	4.9	SW846-8270
Phenanthrene	U	4.9 ug/L	4.9	SW846-8270
Phenol	JU	4.9 ug/L	4.9	SW846-8270
Pyrene	U	4.9 ug/L	4.9	SW846-8270
Pyridine	U	4.9 ug/L	4.9	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	JU	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene		8.4 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	D	180 ug/L	2	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA080

Collected: 5/14/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		11.4	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0226	mg/L		0.01	SW846-6020
Barium		0.285	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		31.8	mg/L		1	SW846-6010B
Chromium	U	0.1	mg/L		0.1	SW846-6020
Cobalt	NU	0.01	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		47.7	mg/L		0.05	SW846-6010B
Lead		0.00364	mg/L		0.0013	SW846-6020
Magnesium		13.7	mg/L		0.025	SW846-6010B
Manganese		0.506	mg/L		0.05	SW846-6020
Mercury	JUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0347	mg/L		0.001	SW846-6020
Nickel	NU	0.05	mg/L		0.05	SW846-6020
Selenium		0.00572	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	37.8	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00866	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	0.273	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0174	mg/L		0.001	SW846-6020
Barium, Dissolved		0.239	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		31.8	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.00543	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		16.8	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		13.1	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	0.367	mg/L		0.005	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00936	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0289	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00569	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		38.1	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved		0.00132	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.16	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	0.0415	pCi/L	0.0295	0.0457	RL-7128
Activity of U-235	U	-0.0029	pCi/L	0.0008	0.0562	RL-7128
Alpha activity	MX	10.1	pCi/L	1.4	3.02	SW846-9310
Americium-241	U	-0.0201	pCi/L	0.0002	0.0891	RL-7128
Beta activity	X	146	pCi/L	4.63	3.02	SW846-9310
Cesium-137	U	0.0331	pCi/L	0.0662	0.74	RL-7124
Neptunium-237	U	-0.0101	pCi/L	0.0004	0.0594	RL-7128
Plutonium-238	U	-0.0022	pCi/L	0.0002	0.0299	RL-7128
Plutonium-239/240	U	-0.0037	pCi/L	0.0004	0.0313	RL-7128
Technetium-99	B	129	pCi/L	12.4	14.8	RL-7100
Thorium-228	U	0.0628	pCi/L	0.0413	0.116	RL-7128
Thorium-230	U	0.15	pCi/L	0.0579	0.193	RL-7128
Thorium-232		0.0936	pCi/L	0.0449	0.0625	RL-7128
Thorium-234	U	-1.32	pCi/L	2.65	20.2	RL-7124
Uranium		2.17	pCi/L	1.5	0.461	RL-7128
Uranium-234	U	0.0112	pCi/L	0.037	0.361	RL-7128
Uranium-234	U	0.322	pCi/L	0.0685	0.353	RL-7128
Uranium-238		0.112	pCi/L	0.0602	0.0883	RL-7128
Uranium-238		1.81	pCi/L	0.148	0.0625	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.9	ug/L	4.9	SW846-8270
1,2-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,3-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,4-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
2,4,5-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4,6-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dimethylphenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2,6-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2-Chloronaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Chlorophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methylnaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Methylphenol	U	4.9	ug/L	4.9	SW846-8270
2-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
2-Nitrophenol	U	4.9	ug/L	4.9	SW846-8270
3,3'-Dichlorobenzidine	U	4.9	ug/L	4.9	SW846-8270
3-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Bromophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270
4-Chloro-3-methylphenol	U	4.9	ug/L	4.9	SW846-8270
4-Chlorobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Chlorophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.9 ug/L	4.9	SW846-8270
4-Nitrophenol	JU	4.9 ug/L	4.9	SW846-8270
Acenaphthene	U	4.9 ug/L	4.9	SW846-8270
Acenaphthylene	U	4.9 ug/L	4.9	SW846-8270
Anthracene	U	4.9 ug/L	4.9	SW846-8270
Benz(a)anthracene	U	4.9 ug/L	4.9	SW846-8270
Benzenemethanol	JU	4.9 ug/L	4.9	SW846-8270
Benzo(a)pyrene	U	4.9 ug/L	4.9	SW846-8270
Benzo(b)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzo(ghi)perylene	U	4.9 ug/L	4.9	SW846-8270
Benzo(k)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzoic acid	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethoxy)methane	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.9 ug/L	4.9	SW846-8270
Butyl benzyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Chrysene	U	4.9 ug/L	4.9	SW846-8270
Dibenz(a,h)anthracene	U	4.9 ug/L	4.9	SW846-8270
Dibenzofuran	U	4.9 ug/L	4.9	SW846-8270
Diethyl phthalate	JU	4.9 ug/L	4.9	SW846-8270
Dimethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-butyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-octylphthalate	U	4.9 ug/L	4.9	SW846-8270
Fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Fluorene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobenzene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobutadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorocyclopentadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachloroethane	U	4.9 ug/L	4.9	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.9 ug/L	4.9	SW846-8270
Isophorone	U	4.9 ug/L	4.9	SW846-8270
m,p-Cresol	U	4.9 ug/L	4.9	SW846-8270
Naphthalene	U	4.9 ug/L	4.9	SW846-8270
Nitrobenzene	U	4.9 ug/L	4.9	SW846-8270
N-Nitroso-di-n-propylamine	U	4.9 ug/L	4.9	SW846-8270
N-Nitrosodiphenylamine	U	4.9 ug/L	4.9	SW846-8270
Pentachlorophenol	U	4.9 ug/L	4.9	SW846-8270
Phenanthrene	U	4.9 ug/L	4.9	SW846-8270
Phenol	JU	4.9 ug/L	4.9	SW846-8270
Pyrene	U	4.9 ug/L	4.9	SW846-8270
Pyridine	U	4.9 ug/L	4.9	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	100 ug/L	100	SW846-8260
1,1,1-Trichloroethane	U	100 ug/L	100	SW846-8260
1,1,2,2-Tetrachloroethane	U	100 ug/L	100	SW846-8260
1,1,2-Trichloroethane	U	100 ug/L	100	SW846-8260
1,1-Dichloroethane	U	100 ug/L	100	SW846-8260
1,1-Dichloroethene	U	100 ug/L	100	SW846-8260
1,2,3-Trichloropropane	U	100 ug/L	100	SW846-8260
1,2-Dibromoethane	U	100 ug/L	100	SW846-8260
1,2-Dichloroethane	U	100 ug/L	100	SW846-8260
1,2-Dichloropropane	U	100 ug/L	100	SW846-8260
1,2-Dimethylbenzene	U	100 ug/L	100	SW846-8260
2-Butanone	U	200 ug/L	200	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	200 ug/L	200	SW846-8260
2-Hexanone	U	200 ug/L	200	SW846-8260
4-Methyl-2-pentanone	U	200 ug/L	200	SW846-8260
Acetone	U	200 ug/L	200	SW846-8260
Acrolein	U	200 ug/L	200	SW846-8260
Acrylonitrile	U	200 ug/L	200	SW846-8260
Benzene	U	100 ug/L	100	SW846-8260
Bromodichloromethane	U	100 ug/L	100	SW846-8260
Bromoform	U	100 ug/L	100	SW846-8260
Bromomethane	U	100 ug/L	100	SW846-8260
Carbon disulfide	U	100 ug/L	100	SW846-8260
Carbon tetrachloride	U	100 ug/L	100	SW846-8260
Chlorobenzene	U	100 ug/L	100	SW846-8260
Chloroethane	U	100 ug/L	100	SW846-8260
Chloroform	U	100 ug/L	100	SW846-8260
Chloromethane	JU	100 ug/L	100	SW846-8260
cis-1,2-Dichloroethene	U	100 ug/L	100	SW846-8260
cis-1,3-Dichloropropene	U	100 ug/L	100	SW846-8260
Dibromochloromethane	U	100 ug/L	100	SW846-8260
Dibromomethane	U	100 ug/L	100	SW846-8260
Dichlorodifluoromethane	U	100 ug/L	100	SW846-8260
Ethyl methacrylate	U	100 ug/L	100	SW846-8260
Ethylbenzene	U	100 ug/L	100	SW846-8260
Iodomethane	JU	100 ug/L	100	SW846-8260
m,p-Xylene	U	200 ug/L	200	SW846-8260
Methylene chloride	U	100 ug/L	100	SW846-8260
Styrene	U	100 ug/L	100	SW846-8260
Tetrachloroethene	U	100 ug/L	100	SW846-8260
Toluene	U	100 ug/L	100	SW846-8260
trans-1,2-Dichloroethene	U	100 ug/L	100	SW846-8260
trans-1,3-Dichloropropene	U	100 ug/L	100	SW846-8260
Trans-1,4-Dichloro-2-butene	U	100 ug/L	100	SW846-8260
Trichloroethene	D	1700 ug/L	20	SW846-8260
Trichlorofluoromethane	U	100 ug/L	100	SW846-8260
Vinyl acetate	U	200 ug/L	200	SW846-8260
Vinyl chloride	U	40 ug/L	40	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA090

Collected: 5/15/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		5.78	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	N	0.0292	mg/L		0.001	SW846-6020
Barium		0.275	mg/L		0.005	SW846-6020
Beryllium		0.00144	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		31.1	mg/L		1	SW846-6010B
Chromium		0.0275	mg/L		0.01	SW846-6020
Cobalt	N	0.0072	mg/L		0.001	SW846-6020
Copper	NU	0.02	mg/L		0.02	SW846-6020
Iron		86.7	mg/L		0.05	SW846-6010B
Lead		0.00355	mg/L		0.0013	SW846-6020
Magnesium		13.2	mg/L		0.025	SW846-6010B
Manganese		0.445	mg/L		0.005	SW846-6020
Mercury	JUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0282	mg/L		0.001	SW846-6020
Nickel	N	0.0441	mg/L		0.005	SW846-6020
Selenium		0.0055	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	41.4	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00197	mg/L		0.001	SW846-6020
Vanadium	U	0.02	mg/L		0.02	SW846-6020
Zinc	X	0.333	mg/L		0.02	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.0157	mg/L		0.001	SW846-6020
Barium, Dissolved		0.239	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		31.4	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.00448	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		18.2	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		13.1	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	0.338	mg/L		0.005	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00434	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0343	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00508	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		42	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.208	mg/L		0.02	SW846-6020

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	-0.0029	pCi/L	0.0008	0.0518	RL-7128
Activity of U-235		0.121	pCi/L	0.043	0.0416	RL-7128
Alpha activity	MX	24.6	pCi/L	2.72	3.28	SW846-9310
Americium-241	U	-0.017	pCi/L	0.0065	0.0901	RL-7128
Beta activity	X	190	pCi/L	5.43	3.15	SW846-9310
Cesium-137	U	0.0894	pCi/L	0.179	0.776	RL-7124
Neptunium-237	U	-0.0064	pCi/L	0.0079	0.0666	RL-7128
Plutonium-238	U	0.00417	pCi/L	0.0091	0.0304	RL-7128
Plutonium-239/240	U	-0.0069	pCi/L	0.006	0.0352	RL-7128
Technetium-99	B	193	pCi/L	13.4	14.8	RL-7100
Thorium-228	U	0.0427	pCi/L	0.0364	0.103	RL-7128
Thorium-230	U	0.0401	pCi/L	0.0388	0.171	RL-7128
Thorium-232	U	0.0104	pCi/L	0.0198	0.057	RL-7128
Thorium-234	U	-10.1	pCi/L	20.1	19.9	RL-7124
Uranium		7.03	pCi/L	2.54	0.455	RL-7128
Uranium-234	U	-0.0308	pCi/L	0.0279	0.361	RL-7128
Uranium-234		1.44	pCi/L	0.131	0.353	RL-7128
Uranium-238		5.47	pCi/L	0.251	0.0602	RL-7128
Uranium-238	U	0.0634	pCi/L	0.04	0.0835	RL-7128

SVOA

1,2,4-Trichlorobenzene	JU	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	JU	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	JU	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	250 ug/L	250	SW846-8260
1,1,1-Trichloroethane	U	250 ug/L	250	SW846-8260
1,1,2,2-Tetrachloroethane	U	250 ug/L	250	SW846-8260
1,1,2-Trichloroethane	U	250 ug/L	250	SW846-8260
1,1-Dichloroethane	U	250 ug/L	250	SW846-8260
1,1-Dichloroethene	U	250 ug/L	250	SW846-8260
1,2,3-Trichloropropane	U	250 ug/L	250	SW846-8260
1,2-Dibromoethane	U	250 ug/L	250	SW846-8260
1,2-Dichloroethane	U	250 ug/L	250	SW846-8260
1,2-Dichloropropane	U	250 ug/L	250	SW846-8260
1,2-Dimethylbenzene	U	250 ug/L	250	SW846-8260
2-Butanone	U	500 ug/L	500	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	500 ug/L	500	SW846-8260
2-Hexanone	U	500 ug/L	500	SW846-8260
4-Methyl-2-pentanone	U	500 ug/L	500	SW846-8260
Acetone	U	500 ug/L	500	SW846-8260
Acrolein	U	500 ug/L	500	SW846-8260
Acrylonitrile	U	500 ug/L	500	SW846-8260
Benzene	U	250 ug/L	250	SW846-8260
Bromodichloromethane	U	250 ug/L	250	SW846-8260
Bromoform	U	250 ug/L	250	SW846-8260
Bromomethane	U	250 ug/L	250	SW846-8260
Carbon disulfide	U	250 ug/L	250	SW846-8260
Carbon tetrachloride	U	250 ug/L	250	SW846-8260
Chlorobenzene	U	250 ug/L	250	SW846-8260
Chloroethane	U	250 ug/L	250	SW846-8260
Chloroform	U	250 ug/L	250	SW846-8260
Chloromethane	JU	250 ug/L	250	SW846-8260
cis-1,2-Dichloroethene	U	250 ug/L	250	SW846-8260
cis-1,3-Dichloropropene	U	250 ug/L	250	SW846-8260
Dibromochloromethane	U	250 ug/L	250	SW846-8260
Dibromomethane	U	250 ug/L	250	SW846-8260
Dichlorodifluoromethane	U	250 ug/L	250	SW846-8260
Ethyl methacrylate	U	250 ug/L	250	SW846-8260
Ethylbenzene	U	250 ug/L	250	SW846-8260
Iodomethane	JU	250 ug/L	250	SW846-8260
m,p-Xylene	U	500 ug/L	500	SW846-8260
Methylene chloride	U	250 ug/L	250	SW846-8260
Styrene	U	250 ug/L	250	SW846-8260
Tetrachloroethene	U	250 ug/L	250	SW846-8260
Toluene	U	250 ug/L	250	SW846-8260
trans-1,2-Dichloroethene	U	250 ug/L	250	SW846-8260
trans-1,3-Dichloropropene	U	250 ug/L	250	SW846-8260
Trans-1,4-Dichloro-2-butene	U	250 ug/L	250	SW846-8260
Trichloroethene	D	3600 ug/L	50	SW846-8260
Trichlorofluoromethane	U	250 ug/L	250	SW846-8260
Vinyl acetate	U	500 ug/L	500	SW846-8260
Vinyl chloride	U	100 ug/L	100	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007010WA100

Collected: 5/15/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7.62	mg/L		0.2	SW846-6010B
Antimony	BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	NU	0.01	mg/L		0.01	SW846-6020
Barium		0.174	mg/L		0.005	SW846-6020
Beryllium	U	0.001	mg/L		0.001	SW846-6020
Cadmium	UX	0.0006	mg/L		0.0006	SW846-6020
Calcium		17.8	mg/L		1	SW846-6010B
Chromium	U	0.1	mg/L		0.1	SW846-6020
Cobalt	N	0.015	mg/L		0.01	SW846-6020
Copper	NU	0.2	mg/L		0.2	SW846-6020
Iron		42.7	mg/L		0.05	SW846-6010B
Lead		0.00515	mg/L		0.0013	SW846-6020
Magnesium		8.21	mg/L		0.025	SW846-6010B
Manganese		0.516	mg/L		0.05	SW846-6020
Mercury	JUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum	N	0.0237	mg/L		0.001	SW846-6020
Nickel	NU	0.05	mg/L		0.05	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BNU	0.001	mg/L		0.001	SW846-6020
Sodium	B	15.9	mg/L		0.5	SW846-6010B
Thallium	U	0.002	mg/L		0.002	SW846-6020
Uranium	B	0.00374	mg/L		0.001	SW846-6020
Vanadium	U	0.2	mg/L		0.2	SW846-6020
Zinc	X	0.37	mg/L		0.2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Barium, Dissolved		0.13	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		17.2	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0121	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		22.1	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		7.44	mg/L		0.025	SW846-6010B
Manganese, Dissolved	JX	0.437	mg/L		0.005	SW846-6020
Mercury, Dissolved	JNUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.0142	mg/L		0.001	SW846-6020
Nickel, Dissolved	NX	0.0311	mg/L		0.005	SW846-6020
Selenium, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Silver, Dissolved	BNU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		16.1	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.274	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-010

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB					
PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS					
Activity of U-235		0.125	pCi/L	0.0461	0.0431 RL-7128
Activity of U-235	U	0.0016	pCi/L	0.0099	0.0466 RL-7128
Alpha activity	M	28.5	pCi/L	3.38	2.74 SW846-9310
Americium-241	U	-0.0109	pCi/L	0.0137	0.0894 RL-7128
Beta activity		45.6	pCi/L	2.39	2.92 SW846-9310
Cesium-137	U	-0.0866	pCi/L	0.173	1.15 RL-7124
Neptunium-237	U	-0.0095	pCi/L	0.0016	0.0584 RL-7128
Plutonium-238	U	-0.0049	pCi/L	0.0053	0.0281 RL-7128
Plutonium-239/240	U	-0.0012	pCi/L	0.0055	0.0289 RL-7128
Technetium-99	B	36.6	pCi/L	10.8	14.8 RL-7100
Thorium-228		0.155	pCi/L	0.0591	0.115 RL-7128
Thorium-230	U	0.0318	pCi/L	0.0413	0.193 RL-7128
Thorium-232		0.0673	pCi/L	0.0405	0.0672 RL-7128
Thorium-234	U	-8.29	pCi/L	16.6	20 RL-7124
Uranium		7.17	pCi/L	2.71	0.458 RL-7128
Uranium-234		1.11	pCi/L	0.126	0.354 RL-7128
Uranium-234	U	0.0117	pCi/L	0.0372	0.357 RL-7128
Uranium-238		5.94	pCi/L	0.283	0.0613 RL-7128
Uranium-238		0.129	pCi/L	0.0477	0.0631 RL-7128

SVOA					
1,2,4-Trichlorobenzene	JU	4.9	ug/L	4.9	SW846-8270
1,2-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,3-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
1,4-Dichlorobenzene	U	4.9	ug/L	4.9	SW846-8270
2,4,5-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4,6-Trichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dichlorophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dimethylphenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2,4-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2,6-Dinitrotoluene	U	4.9	ug/L	4.9	SW846-8270
2-Chloronaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Chlorophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.9	ug/L	4.9	SW846-8270
2-Methylnaphthalene	U	4.9	ug/L	4.9	SW846-8270
2-Methylphenol	U	4.9	ug/L	4.9	SW846-8270
2-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
2-Nitrophenol	U	4.9	ug/L	4.9	SW846-8270
3,3'-Dichlorobenzidine	U	4.9	ug/L	4.9	SW846-8270
3-Nitrobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Bromophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270
4-Chloro-3-methylphenol	U	4.9	ug/L	4.9	SW846-8270
4-Chlorobenzenamine	U	4.9	ug/L	4.9	SW846-8270
4-Chlorophenyl phenyl ether	U	4.9	ug/L	4.9	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.9 ug/L	4.9	SW846-8270
4-Nitrophenol	JU	4.9 ug/L	4.9	SW846-8270
Acenaphthene	U	4.9 ug/L	4.9	SW846-8270
Acenaphthylene	U	4.9 ug/L	4.9	SW846-8270
Anthracene	U	4.9 ug/L	4.9	SW846-8270
Benz(a)anthracene	U	4.9 ug/L	4.9	SW846-8270
Benzenemethanol	JU	4.9 ug/L	4.9	SW846-8270
Benzo(a)pyrene	U	4.9 ug/L	4.9	SW846-8270
Benzo(b)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzo(ghi)perylene	U	4.9 ug/L	4.9	SW846-8270
Benzo(k)fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Benzoic acid	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethoxy)methane	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroethyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.9 ug/L	4.9	SW846-8270
Bis(2-ethylhexyl)phthalate	U	4.9 ug/L	4.9	SW846-8270
Butyl benzyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Chrysene	U	4.9 ug/L	4.9	SW846-8270
Dibenz(a,h)anthracene	U	4.9 ug/L	4.9	SW846-8270
Dibenzofuran	U	4.9 ug/L	4.9	SW846-8270
Diethyl phthalate	JU	4.9 ug/L	4.9	SW846-8270
Dimethyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-butyl phthalate	U	4.9 ug/L	4.9	SW846-8270
Di-n-octylphthalate	U	4.9 ug/L	4.9	SW846-8270
Fluoranthene	U	4.9 ug/L	4.9	SW846-8270
Fluorene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobenzene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorobutadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachlorocyclopentadiene	U	4.9 ug/L	4.9	SW846-8270
Hexachloroethane	U	4.9 ug/L	4.9	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.9 ug/L	4.9	SW846-8270
Isophorone	U	4.9 ug/L	4.9	SW846-8270
m,p-Cresol	U	4.9 ug/L	4.9	SW846-8270
Naphthalene	U	4.9 ug/L	4.9	SW846-8270
Nitrobenzene	U	4.9 ug/L	4.9	SW846-8270
N-Nitroso-di-n-propylamine	U	4.9 ug/L	4.9	SW846-8270
N-Nitrosodiphenylamine	U	4.9 ug/L	4.9	SW846-8270
Pentachlorophenol	U	4.9 ug/L	4.9	SW846-8270
Phenanthrene	U	4.9 ug/L	4.9	SW846-8270
Phenol	JU	4.9 ug/L	4.9	SW846-8270
Pyrene	U	4.9 ug/L	4.9	SW846-8270
Pyridine	U	4.9 ug/L	4.9	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	JU	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	JU	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	U	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	JU	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	U	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		42 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA005

Collected: 4/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		6600	mg/kg		19	SW846-6010B
Antimony	U	8.96	mg/kg		8.96	SW846-6010B
Arsenic		1.66	mg/kg		0.948	SW846-6020
Barium		51.3	mg/kg		2.37	SW846-6010B
Beryllium	BU	0.474	mg/kg		0.474	SW846-6010B
Cadmium	U	1.9	mg/kg		1.9	SW846-6010B
Calcium		637	mg/kg		94.8	SW846-6010B
Chromium		7.71	mg/kg		2.37	SW846-6010B
Cobalt	UX	2.37	mg/kg		2.37	SW846-6010B
Copper	X	5.43	mg/kg		2.37	SW846-6020
Iron		6580	mg/kg		19	SW846-6010B
Lead		5.72	mg/kg		0.948	SW846-6020
Magnesium		523	mg/kg		4.74	SW846-6010B
Manganese	*N	197	mg/kg		2.37	SW846-6010B
Mercury	B	0.028	mg/kg		0.019	SW846-7471
Molybdenum	U	2.37	mg/kg		2.37	SW846-6010B
Nickel		5.31	mg/kg		4.74	SW846-6010B
Selenium	U	0.948	mg/kg		0.948	SW846-6020
Silver	*NUX	2.37	mg/kg		2.37	SW846-6010B
Sodium	U	94.8	mg/kg		94.8	SW846-6010B
Thallium	U	1.9	mg/kg		1.9	SW846-6020
Uranium	B	3.86	mg/kg		0.948	SW846-6020
Vanadium	X	20.1	mg/kg		2.37	SW846-6010B
Zinc	UX	19	mg/kg		19	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235		0.119	pCi/g	0.0304	0.0388	RL-7128
Alpha activity		6.07	pCi/g	1.83	1.87	RL-7111
Americium-241	U	-0.0086	pCi/g	0.0072	0.0226	RL-7128
Beta activity		10.6	pCi/g	1.33	1.78	RL-7111
Cesium-137	U	-0.0019	pCi/g	0.0037	0.0444	RL-7124
Cobalt-60	U	0.0011	pCi/g	0.0022	0.0436	RL-7124
Neptunium-237	U	0.00051	pCi/g	0.0088	0.0277	RL-7128
Plutonium-238	U	0.00014	pCi/g	0.0035	0.0162	RL-7128
Plutonium-239/240	U	-0.0041	pCi/g	0.0022	0.0172	RL-7128
Technetium-99	U	1.68	pCi/g	1.19	1.72	RL-7100
Thorium-228		0.337	pCi/g	0.059	0.0674	RL-7128
Thorium-230		0.376	pCi/g	0.0649	0.11	RL-7128
Thorium-232		0.42	pCi/g	0.0629	0.0501	RL-7128
Thorium-234		2.91	pCi/g	1.16	1.18	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	3.98	pCi/g	1.07	0.302	RL-7128
Uranium-234	1.2	pCi/g	0.0879	0.139	RL-7128
Uranium-235	0.691	wt %	0.194		RL-7128
Uranium-238	2.66	pCi/g	0.128	0.125	RL-7128

SVOA

1,2,4-Trichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg	480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg	480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg	480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg	480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg	480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg	480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg	480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg	480	SW846-8270
2-Methylphenol	JUX	480	ug/kg	480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg	480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg	480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg	480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg	480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg	480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg	480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg	480	SW846-8270
Acenaphthene	JUX	480	ug/kg	480	SW846-8270
Acenaphthylene	JUX	480	ug/kg	480	SW846-8270
Anthracene	JUX	480	ug/kg	480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg	480	SW846-8270
Benzenemethanol	JUX	480	ug/kg	480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg	480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg	480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg	480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg	480	SW846-8270
Benzoic acid	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg	480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg	480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg	480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg	480	SW846-8270
Chrysene	JUX	480	ug/kg	480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg	480	SW846-8270
Dibenzofuran	JUX	480	ug/kg	480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg	480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg	480	SW846-8270
Di-n-butyl phthalate	JUX	480	ug/kg	480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg	480	SW846-8270
Fluoranthene	JUX	480	ug/kg	480	SW846-8270
Fluorene	JUX	480	ug/kg	480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	U	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg	4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone		12.3	ug/kg	4.97	SW846-8260
Acrolein	JU	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	JU	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

007-011**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA010

Collected: 4/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7970	mg/kg		19.2	SW846-6010B
Antimony	U	9.35	mg/kg		9.35	SW846-6010B
Arsenic		2.68	mg/kg		0.96	SW846-6020
Barium		50.1	mg/kg		2.4	SW846-6010B
Beryllium	BU	0.48	mg/kg		0.48	SW846-6010B
Cadmium	U	1.92	mg/kg		1.92	SW846-6010B
Calcium		1190	mg/kg		96	SW846-6010B
Chromium		10.4	mg/kg		2.4	SW846-6010B
Cobalt	X	2.41	mg/kg		2.4	SW846-6010B
Copper	X	11.4	mg/kg		2.4	SW846-6020
Iron		12300	mg/kg		19.2	SW846-6010B
Lead		6.8	mg/kg		0.96	SW846-6020
Magnesium		1330	mg/kg		4.8	SW846-6010B
Manganese	*N	192	mg/kg		2.4	SW846-6010B
Mercury	BU	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.4	mg/kg		2.4	SW846-6010B
Nickel		13.4	mg/kg		4.8	SW846-6010B
Selenium	U	0.96	mg/kg		0.96	SW846-6020
Silver	*NUX	2.4	mg/kg		2.4	SW846-6010B
Sodium		191	mg/kg		96	SW846-6010B
Thallium	U	1.92	mg/kg		1.92	SW846-6020
Uranium	B	0.962	mg/kg		0.96	SW846-6020
Vanadium	X	23	mg/kg		2.4	SW846-6010B
Zinc	X	33.6	mg/kg		19.2	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0145	pCi/g	0.0111	0.0376	RL-7128
Alpha activity		6.71	pCi/g	2.05	1.92	RL-7111
Americium-241	U	-0.0122	pCi/g	0.0033	0.0224	RL-7128
Beta activity		3.38	pCi/g	0.606	1.79	RL-7111
Cesium-137	U	0.00066	pCi/g	0.0013	0.0415	RL-7124
Cobalt-60	U	0.014	pCi/g	0.028	0.0482	RL-7124
Neptunium-237	U	-0.0114	pCi/g	0.0074	0.0277	RL-7128
Plutonium-238	U	0.00044	pCi/g	0.0041	0.0161	RL-7128
Plutonium-239/240	U	-0.003	pCi/g	0	0.0171	RL-7128
Technetium-99		2.55	pCi/g	1.2	1.72	RL-7100
Thorium-228		0.326	pCi/g	0.0554	0.0666	RL-7128
Thorium-230		0.359	pCi/g	0.06	0.111	RL-7128
Thorium-232		0.342	pCi/g	0.0552	0.0555	RL-7128
Thorium-234		3.25	pCi/g	1.21	1.05	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.411	pCi/g	0.327	0.301	RL-7128
Uranium-234	U	0.134	pCi/g	0.0358	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.262	pCi/g	0.0436	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,2-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,3-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
1,4-Dichlorobenzene	JUX	500	ug/kg		500	SW846-8270
2,4,5-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4,6-Trichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dichlorophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dimethylphenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2,4-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2,6-Dinitrotoluene	JUX	500	ug/kg		500	SW846-8270
2-Chloronaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Chlorophenol	JUX	500	ug/kg		500	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	500	ug/kg		500	SW846-8270
2-Methylnaphthalene	JUX	500	ug/kg		500	SW846-8270
2-Methylphenol	JUX	500	ug/kg		500	SW846-8270
2-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
2-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
3,3'-Dichlorobenzidine	JUX	500	ug/kg		500	SW846-8270
3-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Bromophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Chloro-3-methylphenol	JUX	500	ug/kg		500	SW846-8270
4-Chlorobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Chlorophenyl phenyl ether	JUX	500	ug/kg		500	SW846-8270
4-Nitrobenzenamine	JUX	500	ug/kg		500	SW846-8270
4-Nitrophenol	JUX	500	ug/kg		500	SW846-8270
Acenaphthene	JUX	500	ug/kg		500	SW846-8270
Acenaphthylene	JUX	500	ug/kg		500	SW846-8270
Anthracene	JUX	500	ug/kg		500	SW846-8270
Benz(a)anthracene	JUX	500	ug/kg		500	SW846-8270
Benzenemethanol	JUX	500	ug/kg		500	SW846-8270
Benzo(a)pyrene	JUX	500	ug/kg		500	SW846-8270
Benzo(b)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzo(ghi)perylene	JUX	500	ug/kg		500	SW846-8270
Benzo(k)fluoranthene	JUX	500	ug/kg		500	SW846-8270
Benzoic acid	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethoxy)methane	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroethyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	500	ug/kg		500	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	500	ug/kg		500	SW846-8270
Butyl benzyl phthalate	JUX	500	ug/kg		500	SW846-8270
Chrysene	JUX	500	ug/kg		500	SW846-8270
Dibenz(a,h)anthracene	JUX	500	ug/kg		500	SW846-8270
Dibenzofuran	JUX	500	ug/kg		500	SW846-8270
Diethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Dimethyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-butyl phthalate	JUX	500	ug/kg		500	SW846-8270
Di-n-octylphthalate	JUX	500	ug/kg		500	SW846-8270
Fluoranthene	JUX	500	ug/kg		500	SW846-8270
Fluorene	JUX	500	ug/kg		500	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	500	ug/kg	500	SW846-8270
Hexachlorobutadiene	JUX	500	ug/kg	500	SW846-8270
Hexachlorocyclopentadiene	JUX	500	ug/kg	500	SW846-8270
Hexachloroethane	JUX	500	ug/kg	500	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	500	ug/kg	500	SW846-8270
Isophorone	JUX	500	ug/kg	500	SW846-8270
m,p-Cresol	JUX	500	ug/kg	500	SW846-8270
Naphthalene	JUX	500	ug/kg	500	SW846-8270
Nitrobenzene	JUX	500	ug/kg	500	SW846-8270
N-Nitroso-di-n-propylamine	JUX	500	ug/kg	500	SW846-8270
N-Nitrosodiphenylamine	JUX	500	ug/kg	500	SW846-8270
Pentachlorophenol	JUX	500	ug/kg	500	SW846-8270
Phenanthrene	JUX	500	ug/kg	500	SW846-8270
Phenol	JUX	500	ug/kg	500	SW846-8270
Pyrene	JUX	500	ug/kg	500	SW846-8270
Pyridine	JUX	500	ug/kg	500	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,1-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2,2-Tetrachloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1,2-Trichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,1-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
1,2,3-Trichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dibromoethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloroethane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dichloropropane	U	5.04	ug/kg	5.04	SW846-8260
1,2-Dimethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
2-Butanone	U	5.04	ug/kg	5.04	SW846-8260
2-Chloroethyl vinyl ether	JU	5.04	ug/kg	5.04	SW846-8260
2-Hexanone	U	5.04	ug/kg	5.04	SW846-8260
4-Methyl-2-pentanone	U	5.04	ug/kg	5.04	SW846-8260
Acetone	U	5.04	ug/kg	5.04	SW846-8260
Acrolein	JU	5.04	ug/kg	5.04	SW846-8260
Acrylonitrile	U	5.04	ug/kg	5.04	SW846-8260
Benzene	U	5.04	ug/kg	5.04	SW846-8260
Bromodichloromethane	U	5.04	ug/kg	5.04	SW846-8260
Bromoform	U	5.04	ug/kg	5.04	SW846-8260
Bromomethane	U	5.04	ug/kg	5.04	SW846-8260
Carbon disulfide	U	5.04	ug/kg	5.04	SW846-8260
Carbon tetrachloride	U	5.04	ug/kg	5.04	SW846-8260
Chlorobenzene	U	5.04	ug/kg	5.04	SW846-8260
Chloroethane	JU	5.04	ug/kg	5.04	SW846-8260
Chloroform	U	5.04	ug/kg	5.04	SW846-8260
Chloromethane	U	5.04	ug/kg	5.04	SW846-8260
cis-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
cis-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Dibromochloromethane	U	5.04	ug/kg	5.04	SW846-8260
Dibromomethane	U	5.04	ug/kg	5.04	SW846-8260
Dichlorodifluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Ethyl methacrylate	U	5.04	ug/kg	5.04	SW846-8260
Ethylbenzene	U	5.04	ug/kg	5.04	SW846-8260
Iodomethane	U	5.04	ug/kg	5.04	SW846-8260
m,p-Xylene	U	10.1	ug/kg	10.1	SW846-8260
Methylene chloride	U	5.04	ug/kg	5.04	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5.04	ug/kg	5.04	SW846-8260
Tetrachloroethene	U	5.04	ug/kg	5.04	SW846-8260
Toluene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,2-Dichloroethene	U	5.04	ug/kg	5.04	SW846-8260
trans-1,3-Dichloropropene	U	5.04	ug/kg	5.04	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5.04	ug/kg	5.04	SW846-8260
Trichloroethene	U	5.04	ug/kg	5.04	SW846-8260
Trichlorofluoromethane	U	5.04	ug/kg	5.04	SW846-8260
Vinyl acetate	U	5.04	ug/kg	5.04	SW846-8260
Vinyl chloride	U	5.04	ug/kg	5.04	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA015

Collected: 4/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		9020	mg/kg		17.8	SW846-6010B
Antimony	U	8.96	mg/kg		8.96	SW846-6010B
Arsenic		1.59	mg/kg		0.892	SW846-6020
Barium		71.1	mg/kg		2.23	SW846-6010B
Beryllium	BU	0.446	mg/kg		0.446	SW846-6010B
Cadmium	U	1.78	mg/kg		1.78	SW846-6010B
Calcium		1280	mg/kg		89.2	SW846-6010B
Chromium		12.1	mg/kg		2.23	SW846-6010B
Cobalt	X	3.33	mg/kg		2.23	SW846-6010B
Copper	X	6.5	mg/kg		2.23	SW846-6020
Iron		9320	mg/kg		17.8	SW846-6010B
Lead		6.69	mg/kg		0.892	SW846-6020
Magnesium		1190	mg/kg		4.46	SW846-6010B
Manganese	*N	89.2	mg/kg		2.23	SW846-6010B
Mercury	B	0.02	mg/kg		0.02	SW846-7471
Molybdenum	U	2.23	mg/kg		2.23	SW846-6010B
Nickel		7.59	mg/kg		4.46	SW846-6010B
Selenium	U	0.892	mg/kg		0.892	SW846-6020
Silver	*NUX	2.23	mg/kg		2.23	SW846-6010B
Sodium		183	mg/kg		89.2	SW846-6010B
Thallium	U	1.78	mg/kg		1.78	SW846-6020
Uranium	BU	0.892	mg/kg		0.892	SW846-6020
Vanadium	X	30.9	mg/kg		2.23	SW846-6010B
Zinc	X	21.3	mg/kg		17.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00818	pCi/g	0.0073	0.0379	RL-7128
Alpha activity		5.4	pCi/g	1.67	1.62	RL-7111
Americium-241	U	-0.0109	pCi/g	0.0041	0.0215	RL-7128
Beta activity		4.84	pCi/g	0.781	1.72	RL-7111
Cesium-137	U	-0.0209	pCi/g	0.0417	0.0428	RL-7124
Cobalt-60	U	0.00035	pCi/g	0.0007	0.0427	RL-7124
Neptunium-237	U	-0.005	pCi/g	0.0005	0.0278	RL-7128
Plutonium-238	U	0.00323	pCi/g	0.0056	0.0166	RL-7128
Plutonium-239/240	U	-0.0025	pCi/g	0.0009	0.0177	RL-7128
Technetium-99		2.6	pCi/g	1.18	1.72	RL-7100
Thorium-228		0.327	pCi/g	0.0551	0.0671	RL-7128
Thorium-230		0.299	pCi/g	0.0545	0.111	RL-7128
Thorium-232		0.37	pCi/g	0.0573	0.0487	RL-7128
Thorium-234	U	1.17	pCi/g	2.33	1.23	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.263	pCi/g	0.244	0.3	RL-7128
Uranium-234	U	0.0739	pCi/g	0.0296	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238		0.181	pCi/g	0.0363	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	1100	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	U	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg	4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	U	4.97	ug/kg	4.97	SW846-8260
Acrolein	JU	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	JU	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

007-011**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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12/18/2007

007-011

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA030

Collected: 4/24/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		5270	mg/kg		17.7	SW846-6010B
Antimony	U	9.49	mg/kg		9.49	SW846-6010B
Arsenic		1.26	mg/kg		0.884	SW846-6020
Barium		23.1	mg/kg		2.21	SW846-6010B
Beryllium	BU	0.442	mg/kg		0.442	SW846-6010B
Cadmium	U	1.77	mg/kg		1.77	SW846-6010B
Calcium		658	mg/kg		88.4	SW846-6010B
Chromium		5.02	mg/kg		2.21	SW846-6010B
Cobalt	X	3.43	mg/kg		2.21	SW846-6010B
Copper	X	3.32	mg/kg		2.21	SW846-6020
Iron		6060	mg/kg		17.7	SW846-6010B
Lead		14.2	mg/kg		0.884	SW846-6020
Magnesium		329	mg/kg		4.42	SW846-6010B
Manganese	*N	152	mg/kg		2.21	SW846-6010B
Mercury	BU	0.017	mg/kg		0.017	SW846-7471
Molybdenum	U	2.21	mg/kg		2.21	SW846-6010B
Nickel	U	4.42	mg/kg		4.42	SW846-6010B
Selenium	U	0.884	mg/kg		0.884	SW846-6020
Silver	*NUX	2.21	mg/kg		2.21	SW846-6010B
Sodium	U	88.4	mg/kg		88.4	SW846-6010B
Thallium	U	1.77	mg/kg		1.77	SW846-6020
Uranium	BU	0.884	mg/kg		0.884	SW846-6020
Vanadium	X	22.4	mg/kg		2.21	SW846-6010B
Zinc	UX	17.7	mg/kg		17.7	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.0102	pCi/g	0.0083	0.0384	RL-7128
Alpha activity		3.4	pCi/g	1.26	1.54	RL-7111
Americium-241	U	-0.0077	pCi/g	0.0062	0.0224	RL-7128
Beta activity		2.61	pCi/g	0.491	1.68	RL-7111
Cesium-137	U	-0.0062	pCi/g	0.0123	0.0409	RL-7124
Cobalt-60	U	0.00632	pCi/g	0.0126	0.0386	RL-7124
Neptunium-237	U	-0.0086	pCi/g	0.0063	0.0341	RL-7128
Plutonium-238	U	-0.0014	pCi/g	0.0005	0.0168	RL-7128
Plutonium-239/240	U	-0.0028	pCi/g	0.0005	0.0172	RL-7128
Technetium-99		2.34	pCi/g	1.17	1.72	RL-7100
Thorium-228		0.284	pCi/g	0.0512	0.0666	RL-7128
Thorium-230		0.131	pCi/g	0.0407	0.108	RL-7128
Thorium-232		0.277	pCi/g	0.0485	0.0475	RL-7128
Thorium-234	U	1.43	pCi/g	2.87	1.13	RL-7124

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Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.226	pCi/g	0.193	0.301	RL-7128
Uranium-234	U	0.107	pCi/g	0.0328	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.109	pCi/g	0.0312	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,2-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,3-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
1,4-Dichlorobenzene	JUX	460	ug/kg		460	SW846-8270
2,4,5-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4,6-Trichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dichlorophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dimethylphenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2,4-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2,6-Dinitrotoluene	JUX	460	ug/kg		460	SW846-8270
2-Chloronaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Chlorophenol	JUX	460	ug/kg		460	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	460	ug/kg		460	SW846-8270
2-Methylnaphthalene	JUX	460	ug/kg		460	SW846-8270
2-Methylphenol	JUX	460	ug/kg		460	SW846-8270
2-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
2-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
3,3'-Dichlorobenzidine	JUX	460	ug/kg		460	SW846-8270
3-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Bromophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Chloro-3-methylphenol	JUX	460	ug/kg		460	SW846-8270
4-Chlorobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Chlorophenyl phenyl ether	JUX	460	ug/kg		460	SW846-8270
4-Nitrobenzenamine	JUX	460	ug/kg		460	SW846-8270
4-Nitrophenol	JUX	460	ug/kg		460	SW846-8270
Acenaphthene	JUX	460	ug/kg		460	SW846-8270
Acenaphthylene	JUX	460	ug/kg		460	SW846-8270
Anthracene	JUX	460	ug/kg		460	SW846-8270
Benz(a)anthracene	JUX	460	ug/kg		460	SW846-8270
Benzenemethanol	JUX	460	ug/kg		460	SW846-8270
Benzo(a)pyrene	JUX	460	ug/kg		460	SW846-8270
Benzo(b)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzo(ghi)perylene	JUX	460	ug/kg		460	SW846-8270
Benzo(k)fluoranthene	JUX	460	ug/kg		460	SW846-8270
Benzoic acid	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroethoxy)methane	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroethyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	460	ug/kg		460	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	460	ug/kg		460	SW846-8270
Butyl benzyl phthalate	JUX	460	ug/kg		460	SW846-8270
Chrysene	JUX	460	ug/kg		460	SW846-8270
Dibenz(a,h)anthracene	JUX	460	ug/kg		460	SW846-8270
Dibenzofuran	JUX	460	ug/kg		460	SW846-8270
Diethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Dimethyl phthalate	JUX	460	ug/kg		460	SW846-8270
Di-n-butyl phthalate	BJX	870	ug/kg		460	SW846-8270
Di-n-octylphthalate	JUX	460	ug/kg		460	SW846-8270
Fluoranthene	JUX	460	ug/kg		460	SW846-8270
Fluorene	JUX	460	ug/kg		460	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	460	ug/kg	460	SW846-8270
Hexachlorobutadiene	JUX	460	ug/kg	460	SW846-8270
Hexachlorocyclopentadiene	JUX	460	ug/kg	460	SW846-8270
Hexachloroethane	JUX	460	ug/kg	460	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	460	ug/kg	460	SW846-8270
Isophorone	JUX	460	ug/kg	460	SW846-8270
m,p-Cresol	JUX	460	ug/kg	460	SW846-8270
Naphthalene	JUX	460	ug/kg	460	SW846-8270
Nitrobenzene	JUX	460	ug/kg	460	SW846-8270
N-Nitroso-di-n-propylamine	JUX	460	ug/kg	460	SW846-8270
N-Nitrosodiphenylamine	JUX	460	ug/kg	460	SW846-8270
Pentachlorophenol	JUX	460	ug/kg	460	SW846-8270
Phenanthrene	JUX	460	ug/kg	460	SW846-8270
Phenol	JUX	460	ug/kg	460	SW846-8270
Pyrene	JUX	460	ug/kg	460	SW846-8270
Pyridine	JUX	460	ug/kg	460	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,1,2-Tetrachloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1,2-Trichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,1-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
1,2,3-Trichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dibromoethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloroethane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dichloropropane	U	4.97	ug/kg	4.97	SW846-8260
1,2-Dimethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
2-Butanone	U	4.97	ug/kg	4.97	SW846-8260
2-Chloroethyl vinyl ether	JU	4.97	ug/kg	4.97	SW846-8260
2-Hexanone	U	4.97	ug/kg	4.97	SW846-8260
4-Methyl-2-pentanone	U	4.97	ug/kg	4.97	SW846-8260
Acetone	U	4.97	ug/kg	4.97	SW846-8260
Acrolein	JU	4.97	ug/kg	4.97	SW846-8260
Acrylonitrile	U	4.97	ug/kg	4.97	SW846-8260
Benzene	U	4.97	ug/kg	4.97	SW846-8260
Bromodichloromethane	U	4.97	ug/kg	4.97	SW846-8260
Bromoform	U	4.97	ug/kg	4.97	SW846-8260
Bromomethane	U	4.97	ug/kg	4.97	SW846-8260
Carbon disulfide	U	4.97	ug/kg	4.97	SW846-8260
Carbon tetrachloride	U	4.97	ug/kg	4.97	SW846-8260
Chlorobenzene	U	4.97	ug/kg	4.97	SW846-8260
Chloroethane	JU	4.97	ug/kg	4.97	SW846-8260
Chloroform	U	4.97	ug/kg	4.97	SW846-8260
Chloromethane	U	4.97	ug/kg	4.97	SW846-8260
cis-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
cis-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Dibromochloromethane	U	4.97	ug/kg	4.97	SW846-8260
Dibromomethane	U	4.97	ug/kg	4.97	SW846-8260
Dichlorodifluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Ethyl methacrylate	U	4.97	ug/kg	4.97	SW846-8260
Ethylbenzene	U	4.97	ug/kg	4.97	SW846-8260
Iodomethane	U	4.97	ug/kg	4.97	SW846-8260
m,p-Xylene	U	9.94	ug/kg	9.94	SW846-8260
Methylene chloride	U	4.97	ug/kg	4.97	SW846-8260

007-011**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.97	ug/kg	4.97	SW846-8260
Tetrachloroethene	U	4.97	ug/kg	4.97	SW846-8260
Toluene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,2-Dichloroethene	U	4.97	ug/kg	4.97	SW846-8260
trans-1,3-Dichloropropene	U	4.97	ug/kg	4.97	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.97	ug/kg	4.97	SW846-8260
Trichloroethene	U	4.97	ug/kg	4.97	SW846-8260
Trichlorofluoromethane	U	4.97	ug/kg	4.97	SW846-8260
Vinyl acetate	U	4.97	ug/kg	4.97	SW846-8260
Vinyl chloride	U	4.97	ug/kg	4.97	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA045

Collected: 4/25/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		2850	mg/kg		18.8	SW846-6010B
Antimony	U	9.17	mg/kg		9.17	SW846-6010B
Arsenic	BU	0.94	mg/kg		0.94	SW846-6020
Barium		9.24	mg/kg		2.35	SW846-6010B
Beryllium	BU	0.47	mg/kg		0.47	SW846-6010B
Cadmium	U	1.88	mg/kg		1.88	SW846-6010B
Calcium		298	mg/kg		94	SW846-6010B
Chromium		3.51	mg/kg		2.35	SW846-6010B
Cobalt	UX	2.35	mg/kg		2.35	SW846-6010B
Copper	UX	2.35	mg/kg		2.35	SW846-6020
Iron		1440	mg/kg		18.8	SW846-6010B
Lead		2.22	mg/kg		0.94	SW846-6020
Magnesium		155	mg/kg		4.7	SW846-6010B
Manganese	*N	45.9	mg/kg		2.35	SW846-6010B
Mercury	BU	0.018	mg/kg		0.018	SW846-7471
Molybdenum	U	2.35	mg/kg		2.35	SW846-6010B
Nickel	U	4.7	mg/kg		4.7	SW846-6010B
Selenium	U	0.94	mg/kg		0.94	SW846-6020
Silver	*NUX	2.35	mg/kg		2.35	SW846-6010B
Sodium	U	94	mg/kg		94	SW846-6010B
Thallium	U	1.88	mg/kg		1.88	SW846-6020
Uranium	BU	0.94	mg/kg		0.94	SW846-6020
Vanadium	X	9.92	mg/kg		2.35	SW846-6010B
Zinc	UX	18.8	mg/kg		18.8	SW846-6010B
PCCB						
PCB-1016	U	90	ug/kg		90	SW846-8082
PCB-1221	U	90	ug/kg		90	SW846-8082
PCB-1232	U	90	ug/kg		90	SW846-8082
PCB-1242	U	90	ug/kg		90	SW846-8082
PCB-1248	U	90	ug/kg		90	SW846-8082
PCB-1254	U	90	ug/kg		90	SW846-8082
PCB-1260	U	90	ug/kg		90	SW846-8082
PCB-1268	U	0.09	mg/kg		0.09	SW846-8082
Polychlorinated biphenyl	U	90	ug/kg		90	SW846-8082
RADS						
Activity of U-235	U	0.00207	pCi/g	0.0042	0.0384	RL-7128
Alpha activity		1.52	pCi/g	0.761	1.43	RL-7111
Americium-241	U	-0.0138	pCi/g	0	0.0219	RL-7128
Beta activity	U	0.916	pCi/g	0.202	1.56	RL-7111
Cesium-137	U	-0.0031	pCi/g	0.0062	0.0321	RL-7124
Cobalt-60	U	-0.0024	pCi/g	0.0047	0.025	RL-7124
Neptunium-237	U	-0.0075	pCi/g	0.0054	0.0265	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0	0.0162	RL-7128
Plutonium-239/240	U	-0.003	pCi/g	0	0.0179	RL-7128
Technetium-99		1.74	pCi/g	1.16	1.72	RL-7100
Thorium-228		0.0923	pCi/g	0.0347	0.0667	RL-7128
Thorium-230	U	0.0299	pCi/g	0.031	0.109	RL-7128
Thorium-232		0.163	pCi/g	0.0392	0.0478	RL-7128
Thorium-234	U	1.01	pCi/g	2.01	0.952	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	-0.0164	pCi/g	0.0338	0.302	RL-7128
Uranium-234	U	-0.0127	pCi/g	0.0232	0.139	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	-0.0058	pCi/g	0.02	0.125	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,2-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,3-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
1,4-Dichlorobenzene	JUX	470	ug/kg		470	SW846-8270
2,4,5-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4,6-Trichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dichlorophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dimethylphenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2,4-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2,6-Dinitrotoluene	JUX	470	ug/kg		470	SW846-8270
2-Chloronaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Chlorophenol	JUX	470	ug/kg		470	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	470	ug/kg		470	SW846-8270
2-Methylnaphthalene	JUX	470	ug/kg		470	SW846-8270
2-Methylphenol	JUX	470	ug/kg		470	SW846-8270
2-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
2-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
3,3'-Dichlorobenzidine	JUX	470	ug/kg		470	SW846-8270
3-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Bromophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Chloro-3-methylphenol	JUX	470	ug/kg		470	SW846-8270
4-Chlorobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Chlorophenyl phenyl ether	JUX	470	ug/kg		470	SW846-8270
4-Nitrobenzenamine	JUX	470	ug/kg		470	SW846-8270
4-Nitrophenol	JUX	470	ug/kg		470	SW846-8270
Acenaphthene	JUX	470	ug/kg		470	SW846-8270
Acenaphthylene	JUX	470	ug/kg		470	SW846-8270
Anthracene	JUX	470	ug/kg		470	SW846-8270
Benz(a)anthracene	JUX	470	ug/kg		470	SW846-8270
Benzenemethanol	JUX	470	ug/kg		470	SW846-8270
Benzo(a)pyrene	JUX	470	ug/kg		470	SW846-8270
Benzo(b)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzo(ghi)perylene	JUX	470	ug/kg		470	SW846-8270
Benzo(k)fluoranthene	JUX	470	ug/kg		470	SW846-8270
Benzoic acid	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethoxy)methane	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroethyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	470	ug/kg		470	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	470	ug/kg		470	SW846-8270
Butyl benzyl phthalate	JUX	470	ug/kg		470	SW846-8270
Chrysene	JUX	470	ug/kg		470	SW846-8270
Dibenz(a,h)anthracene	JUX	470	ug/kg		470	SW846-8270
Dibenzofuran	JUX	470	ug/kg		470	SW846-8270
Diethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Dimethyl phthalate	JUX	470	ug/kg		470	SW846-8270
Di-n-butyl phthalate	BJX	820	ug/kg		470	SW846-8270
Di-n-octylphthalate	JUX	470	ug/kg		470	SW846-8270
Fluoranthene	JUX	470	ug/kg		470	SW846-8270
Fluorene	JUX	470	ug/kg		470	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	470	ug/kg	470	SW846-8270
Hexachlorobutadiene	JUX	470	ug/kg	470	SW846-8270
Hexachlorocyclopentadiene	JUX	470	ug/kg	470	SW846-8270
Hexachloroethane	JUX	470	ug/kg	470	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	470	ug/kg	470	SW846-8270
Isophorone	JUX	470	ug/kg	470	SW846-8270
m,p-Cresol	JUX	470	ug/kg	470	SW846-8270
Naphthalene	JUX	470	ug/kg	470	SW846-8270
Nitrobenzene	JUX	470	ug/kg	470	SW846-8270
N-Nitroso-di-n-propylamine	JUX	470	ug/kg	470	SW846-8270
N-Nitrosodiphenylamine	JUX	470	ug/kg	470	SW846-8270
Pentachlorophenol	JUX	470	ug/kg	470	SW846-8270
Phenanthrene	JUX	470	ug/kg	470	SW846-8270
Phenol	JUX	470	ug/kg	470	SW846-8270
Pyrene	JUX	470	ug/kg	470	SW846-8270
Pyridine	JUX	470	ug/kg	470	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	U	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg	5	SW846-8260
2-Hexanone	U	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	U	5	ug/kg	5	SW846-8260
Acrolein	JU	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	JU	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	U	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	9.99	ug/kg	9.99	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

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BGOU07-SWMU7V Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SA060

Collected: 4/25/2007

Media Type: SO

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum		7770	mg/kg		18.4	SW846-6010B
Antimony	U	9.47	mg/kg		9.47	SW846-6010B
Arsenic		2.44	mg/kg		0.919	SW846-6020
Barium		71.2	mg/kg		2.3	SW846-6010B
Beryllium	B	0.542	mg/kg		0.46	SW846-6010B
Cadmium	U	1.84	mg/kg		1.84	SW846-6010B
Calcium		778	mg/kg		91.9	SW846-6010B
Chromium		8.24	mg/kg		2.3	SW846-6010B
Cobalt	X	6.31	mg/kg		2.3	SW846-6010B
Copper	X	8.09	mg/kg		2.3	SW846-6020
Iron		17600	mg/kg		18.4	SW846-6010B
Lead	B	7.02	mg/kg		0.919	SW846-6020
Magnesium		909	mg/kg		4.6	SW846-6010B
Manganese	*N	235	mg/kg		2.3	SW846-6010B
Mercury	BU	0.019	mg/kg		0.019	SW846-7471
Molybdenum	U	2.3	mg/kg		2.3	SW846-6010B
Nickel		13	mg/kg		4.6	SW846-6010B
Selenium	U	0.919	mg/kg		0.919	SW846-6020
Silver	*NUX	2.3	mg/kg		2.3	SW846-6010B
Sodium	U	91.9	mg/kg		91.9	SW846-6010B
Thallium	U	1.84	mg/kg		1.84	SW846-6020
Uranium	BU	0.919	mg/kg		0.919	SW846-6020
Vanadium	X	33.9	mg/kg		2.3	SW846-6010B
Zinc	X	41.7	mg/kg		18.4	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00852	pCi/g	0.0086	0.0375	RL-7128
Alpha activity		3.85	pCi/g	1.38	1.62	RL-7111
Americium-241	U	-0.0073	pCi/g	0.0075	0.0225	RL-7128
Beta activity		3.03	pCi/g	0.553	1.72	RL-7111
Cesium-137	U	0.00863	pCi/g	0.0173	0.0472	RL-7124
Cobalt-60	U	0.0414	pCi/g	0.0829	0.044	RL-7124
Neptunium-237	U	-0.011	pCi/g	0.0083	0.0272	RL-7128
Plutonium-238	U	-0.0016	pCi/g	0	0.0157	RL-7128
Plutonium-239/240	U	-0.003	pCi/g	0	0.017	RL-7128
Technetium-99		1.98	pCi/g	1.17	1.72	RL-7100
Thorium-228		0.253	pCi/g	0.0504	0.0671	RL-7128
Thorium-230		0.142	pCi/g	0.0424	0.109	RL-7128
Thorium-232		0.252	pCi/g	0.0481	0.0483	RL-7128
Thorium-234	U	1.16	pCi/g	2.32	1.18	RL-7124

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.177	pCi/g	0.185	0.3	RL-7128
Uranium-234	U	0.109	pCi/g	0.0327	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0592	pCi/g	0.0255	0.124	RL-7128
SVOA						
1,2,4-Trichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,2-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,3-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
1,4-Dichlorobenzene	JUX	480	ug/kg		480	SW846-8270
2,4,5-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4,6-Trichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dichlorophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dimethylphenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2,4-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2,6-Dinitrotoluene	JUX	480	ug/kg		480	SW846-8270
2-Chloronaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Chlorophenol	JUX	480	ug/kg		480	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	480	ug/kg		480	SW846-8270
2-Methylnaphthalene	JUX	480	ug/kg		480	SW846-8270
2-Methylphenol	JUX	480	ug/kg		480	SW846-8270
2-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
2-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
3,3'-Dichlorobenzidine	JUX	480	ug/kg		480	SW846-8270
3-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Bromophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Chloro-3-methylphenol	JUX	480	ug/kg		480	SW846-8270
4-Chlorobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Chlorophenyl phenyl ether	JUX	480	ug/kg		480	SW846-8270
4-Nitrobenzenamine	JUX	480	ug/kg		480	SW846-8270
4-Nitrophenol	JUX	480	ug/kg		480	SW846-8270
Acenaphthene	JUX	480	ug/kg		480	SW846-8270
Acenaphthylene	JUX	480	ug/kg		480	SW846-8270
Anthracene	JUX	480	ug/kg		480	SW846-8270
Benz(a)anthracene	JUX	480	ug/kg		480	SW846-8270
Benzenemethanol	JUX	480	ug/kg		480	SW846-8270
Benzo(a)pyrene	JUX	480	ug/kg		480	SW846-8270
Benzo(b)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzo(ghi)perylene	JUX	480	ug/kg		480	SW846-8270
Benzo(k)fluoranthene	JUX	480	ug/kg		480	SW846-8270
Benzoic acid	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethoxy)methane	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroethyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	480	ug/kg		480	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	480	ug/kg		480	SW846-8270
Butyl benzyl phthalate	JUX	480	ug/kg		480	SW846-8270
Chrysene	JUX	480	ug/kg		480	SW846-8270
Dibenz(a,h)anthracene	JUX	480	ug/kg		480	SW846-8270
Dibenzofuran	JUX	480	ug/kg		480	SW846-8270
Diethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Dimethyl phthalate	JUX	480	ug/kg		480	SW846-8270
Di-n-butyl phthalate	BJX	1600	ug/kg		480	SW846-8270
Di-n-octylphthalate	JUX	480	ug/kg		480	SW846-8270
Fluoranthene	JUX	480	ug/kg		480	SW846-8270
Fluorene	JUX	480	ug/kg		480	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	480	ug/kg	480	SW846-8270
Hexachlorobutadiene	JUX	480	ug/kg	480	SW846-8270
Hexachlorocyclopentadiene	JUX	480	ug/kg	480	SW846-8270
Hexachloroethane	JUX	480	ug/kg	480	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	480	ug/kg	480	SW846-8270
Isophorone	JUX	480	ug/kg	480	SW846-8270
m,p-Cresol	JUX	480	ug/kg	480	SW846-8270
Naphthalene	JUX	480	ug/kg	480	SW846-8270
Nitrobenzene	JUX	480	ug/kg	480	SW846-8270
N-Nitroso-di-n-propylamine	JUX	480	ug/kg	480	SW846-8270
N-Nitrosodiphenylamine	JUX	480	ug/kg	480	SW846-8270
Pentachlorophenol	JUX	480	ug/kg	480	SW846-8270
Phenanthrene	JUX	480	ug/kg	480	SW846-8270
Phenol	JUX	480	ug/kg	480	SW846-8270
Pyrene	JUX	480	ug/kg	480	SW846-8270
Pyridine	JUX	480	ug/kg	480	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,1-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5	ug/kg	5	SW846-8260
1,1,2-Trichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,1-Dichloroethene	U	5	ug/kg	5	SW846-8260
1,2,3-Trichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dibromoethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloroethane	U	5	ug/kg	5	SW846-8260
1,2-Dichloropropane	U	5	ug/kg	5	SW846-8260
1,2-Dimethylbenzene	U	5	ug/kg	5	SW846-8260
2-Butanone	U	5	ug/kg	5	SW846-8260
2-Chloroethyl vinyl ether	JU	5	ug/kg	5	SW846-8260
2-Hexanone	U	5	ug/kg	5	SW846-8260
4-Methyl-2-pentanone	U	5	ug/kg	5	SW846-8260
Acetone	U	5	ug/kg	5	SW846-8260
Acrolein	JU	5	ug/kg	5	SW846-8260
Acrylonitrile	U	5	ug/kg	5	SW846-8260
Benzene	U	5	ug/kg	5	SW846-8260
Bromodichloromethane	U	5	ug/kg	5	SW846-8260
Bromoform	U	5	ug/kg	5	SW846-8260
Bromomethane	U	5	ug/kg	5	SW846-8260
Carbon disulfide	U	5	ug/kg	5	SW846-8260
Carbon tetrachloride	U	5	ug/kg	5	SW846-8260
Chlorobenzene	U	5	ug/kg	5	SW846-8260
Chloroethane	JU	5	ug/kg	5	SW846-8260
Chloroform	U	5	ug/kg	5	SW846-8260
Chloromethane	U	5	ug/kg	5	SW846-8260
cis-1,2-Dichloroethene	U	5	ug/kg	5	SW846-8260
cis-1,3-Dichloropropene	U	5	ug/kg	5	SW846-8260
Dibromochloromethane	U	5	ug/kg	5	SW846-8260
Dibromomethane	U	5	ug/kg	5	SW846-8260
Dichlorodifluoromethane	U	5	ug/kg	5	SW846-8260
Ethyl methacrylate	U	5	ug/kg	5	SW846-8260
Ethylbenzene	U	5	ug/kg	5	SW846-8260
Iodomethane	U	5	ug/kg	5	SW846-8260
m,p-Xylene	U	9.99	ug/kg	9.99	SW846-8260
Methylene chloride	U	5	ug/kg	5	SW846-8260

007-011**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	5 ug/kg	5 SW846-8260
Tetrachloroethene	U	5 ug/kg	5 SW846-8260
Toluene	U	5 ug/kg	5 SW846-8260
trans-1,2-Dichloroethene	U	5 ug/kg	5 SW846-8260
trans-1,3-Dichloropropene	U	5 ug/kg	5 SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/kg	5 SW846-8260
Trichloroethene	U	5 ug/kg	5 SW846-8260
Trichlorofluoromethane	U	5 ug/kg	5 SW846-8260
Vinyl acetate	U	5 ug/kg	5 SW846-8260
Vinyl chloride	U	5 ug/kg	5 SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011WA030

Collected: 4/25/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	*	1980	mg/L		2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	1	mg/L		1	SW846-6020
Barium	*B	2.68	mg/L		0.05	SW846-6020
Beryllium	J	0.0379	mg/L		0.001	SW846-6020
Cadmium	X	0.00695	mg/L		0.0006	SW846-6020
Calcium		103	mg/L		1	SW846-6010B
Chromium	*NU	10	mg/L		10	SW846-6020
Cobalt	*U	1	mg/L		1	SW846-6020
Copper	*NU	20	mg/L		20	SW846-6020
Iron	*	1010	mg/L		0.5	SW846-6010B
Lead	*N	0.694	mg/L		0.013	SW846-6020
Magnesium		59.4	mg/L		0.025	SW846-6010B
Manganese	*X	6.6	mg/L		5	SW846-6020
Mercury	X	0.00077	mg/L		0.0003	SW846-7470A
Molybdenum	*N	0.00862	mg/L		0.001	SW846-6020
Nickel	*NU	5	mg/L		5	SW846-6020
Selenium	UX	0.05	mg/L		0.05	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium	B	42.7	mg/L		0.5	SW846-6010B
Thallium	X	0.0117	mg/L		0.002	SW846-6020
Uranium	B	0.0726	mg/L		0.001	SW846-6020
Vanadium	*U	20	mg/L		20	SW846-6020
Zinc	*U	20	mg/L		20	SW846-6020
METAL-D						
Aluminum, Dissolved		0.517	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Barium, Dissolved		0.104	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		26.4	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.1	mg/L		0.1	SW846-6020
Cobalt, Dissolved		0.0156	mg/L		0.01	SW846-6020
Copper, Dissolved	UX	0.2	mg/L		0.2	SW846-6020
Iron, Dissolved		1.06	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		9.71	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.862	mg/L		0.05	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Nickel, Dissolved	U	0.05	mg/L		0.05	SW846-6020
Selenium, Dissolved		0.0182	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		53.9	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.2	mg/L		0.2	SW846-6020
Zinc, Dissolved	U	0.2	mg/L		0.2	SW846-6020

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	0.00223	pCi/L	0.0079	0.0433	RL-7128
Activity of U-235		0.516	pCi/L	0.154	0.124	RL-7128
Alpha activity	MX	113	pCi/L	8.7	5.57	SW846-9310
Americium-241	U	0.027	pCi/L	0.0416	0.152	RL-7128
Beta activity	X	110	pCi/L	4.45	5.55	SW846-9310
Cesium-137	UX	0.345	pCi/L	0.69	1.06	RL-7124
Neptunium-237	U	0.0202	pCi/L	0.0359	0.157	RL-7128
Plutonium-238	U	-0.0038	pCi/L	0	0.1	RL-7128
Plutonium-239/240	U	0.0116	pCi/L	0.0228	0.0924	RL-7128
Technetium-99	B	20.5	pCi/L	10.7	14.8	RL-7100
Thorium-228	U	0.342	pCi/L	0.159	0.353	RL-7128
Thorium-230	U	0.022	pCi/L	0.117	0.452	RL-7128
Thorium-232	U	0.104	pCi/L	0.0765	0.223	RL-7128
Thorium-234		149	pCi/L	25.1	22.7	RL-7124
Uranium		20.9	pCi/L	6.49	1.2	RL-7128
Uranium-234	U	-0.0032	pCi/L	0.0309	0.353	RL-7128
Uranium-234		8.39	pCi/L	0.563	0.911	RL-7128
Uranium-238		12	pCi/L	0.67	0.162	RL-7128
Uranium-238	U	0.0551	pCi/L	0.0303	0.0609	RL-7128

SVOA

1,2,4-Trichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	U	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	UX	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	UY	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	U	1 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-011

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011WA060

Collected: 4/25/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	*	251	mg/L		0.2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.1	mg/L		0.1	SW846-6020
Barium	*B	0.605	mg/L		0.005	SW846-6020
Beryllium	J	0.015	mg/L		0.001	SW846-6020
Cadmium	X	0.00237	mg/L		0.0006	SW846-6020
Calcium		30.9	mg/L		1	SW846-6010B
Chromium	*NU	1	mg/L		1	SW846-6020
Cobalt	*U	0.1	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	255	mg/L		0.05	SW846-6010B
Lead	*N	0.11	mg/L		0.013	SW846-6020
Magnesium		20.2	mg/L		0.025	SW846-6010B
Manganese	*X	2.14	mg/L		0.5	SW846-6020
Mercury	X	0.00013	mg/L		5E-05	SW846-7470A
Molybdenum	*N	0.0107	mg/L		0.001	SW846-6020
Nickel	*NU	0.5	mg/L		0.5	SW846-6020
Selenium		0.0101	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium	B	30.1	mg/L		0.5	SW846-6010B
Thallium	X	0.00291	mg/L		0.002	SW846-6020
Uranium	B	0.0119	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*U	2	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Barium, Dissolved		0.071	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		18	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.1	mg/L		0.1	SW846-6020
Cobalt, Dissolved		0.01	mg/L		0.01	SW846-6020
Copper, Dissolved	UX	0.2	mg/L		0.2	SW846-6020
Iron, Dissolved		4.46	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		5.91	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	0.628	mg/L		0.05	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Nickel, Dissolved	U	0.05	mg/L		0.05	SW846-6020
Selenium, Dissolved		0.0078	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		32.3	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.2	mg/L		0.2	SW846-6020
Zinc, Dissolved	U	0.2	mg/L		0.2	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	U	0.1	ug/L	0.1	SW846-8082
PCB-1221	U	0.1	ug/L	0.1	SW846-8082
PCB-1232	U	0.1	ug/L	0.1	SW846-8082
PCB-1242	U	0.1	ug/L	0.1	SW846-8082
PCB-1248	U	0.1	ug/L	0.1	SW846-8082
PCB-1254	U	0.1	ug/L	0.1	SW846-8082
PCB-1260	U	0.1	ug/L	0.1	SW846-8082
PCB-1268	U	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	U	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.0925	pCi/L	0.0393	0.0398	RL-7128
Activity of U-235	U	0.00247	pCi/L	0.0084	0.0476	RL-7128
Alpha activity	MX	25.9	pCi/L	2.97	3.04	SW846-9310
Americium-241	U	0.0114	pCi/L	0.0154	0.0581	RL-7128
Beta activity	X	49.1	pCi/L	2.58	4.78	SW846-9310
Cesium-137	U	-0.061	pCi/L	0.122	0.789	RL-7124
Neptunium-237	U	0.018	pCi/L	0.0224	0.0668	RL-7128
Plutonium-238	U	0.0306	pCi/L	0.0207	0.0388	RL-7128
Plutonium-239/240	U	0.0267	pCi/L	0.0198	0.0345	RL-7128
Technetium-99	B	31.1	pCi/L	10.8	14.8	RL-7100
Thorium-228	U	0.13	pCi/L	0.0617	0.141	RL-7128
Thorium-230	U	0.0155	pCi/L	0.0412	0.176	RL-7128
Thorium-232	U	-0.003	pCi/L	0.0016	0.0928	RL-7128
Thorium-234	U	1.46	pCi/L	2.93	21.4	RL-7124
Uranium		3.83	pCi/L	1.66	0.453	RL-7128
Uranium-234		1.82	pCi/L	0.159	0.353	RL-7128
Uranium-234	U	0.0347	pCi/L	0.0418	0.353	RL-7128
Uranium-238	U	0.0338	pCi/L	0.0294	0.0628	RL-7128
Uranium-238		1.91	pCi/L	0.16	0.06	RL-7128

SVOA

1,2,4-Trichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,2-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,3-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
1,4-Dichlorobenzene	U	4.8	ug/L	4.8	SW846-8270
2,4,5-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4,6-Trichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dichlorophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dimethylphenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2,4-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2,6-Dinitrotoluene	U	4.8	ug/L	4.8	SW846-8270
2-Chloronaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Chlorophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.8	ug/L	4.8	SW846-8270
2-Methylnaphthalene	U	4.8	ug/L	4.8	SW846-8270
2-Methylphenol	U	4.8	ug/L	4.8	SW846-8270
2-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
2-Nitrophenol	U	4.8	ug/L	4.8	SW846-8270
3,3'-Dichlorobenzidine	U	4.8	ug/L	4.8	SW846-8270
3-Nitrobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Bromophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270
4-Chloro-3-methylphenol	U	4.8	ug/L	4.8	SW846-8270
4-Chlorobenzenamine	U	4.8	ug/L	4.8	SW846-8270
4-Chlorophenyl phenyl ether	U	4.8	ug/L	4.8	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.8 ug/L	4.8	SW846-8270
4-Nitrophenol	JU	4.8 ug/L	4.8	SW846-8270
Acenaphthene	U	4.8 ug/L	4.8	SW846-8270
Acenaphthylene	U	4.8 ug/L	4.8	SW846-8270
Anthracene	U	4.8 ug/L	4.8	SW846-8270
Benz(a)anthracene	U	4.8 ug/L	4.8	SW846-8270
Benzenemethanol	U	4.8 ug/L	4.8	SW846-8270
Benzo(a)pyrene	U	4.8 ug/L	4.8	SW846-8270
Benzo(b)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzo(ghi)perylene	U	4.8 ug/L	4.8	SW846-8270
Benzo(k)fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Benzoic acid	UX	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethoxy)methane	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroethyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.8 ug/L	4.8	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	4.8 ug/L	4.8	SW846-8270
Butyl benzyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Chrysene	U	4.8 ug/L	4.8	SW846-8270
Dibenz(a,h)anthracene	U	4.8 ug/L	4.8	SW846-8270
Dibenzofuran	U	4.8 ug/L	4.8	SW846-8270
Diethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Dimethyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-butyl phthalate	U	4.8 ug/L	4.8	SW846-8270
Di-n-octylphthalate	U	4.8 ug/L	4.8	SW846-8270
Fluoranthene	U	4.8 ug/L	4.8	SW846-8270
Fluorene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobenzene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorobutadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachlorocyclopentadiene	U	4.8 ug/L	4.8	SW846-8270
Hexachloroethane	U	4.8 ug/L	4.8	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.8 ug/L	4.8	SW846-8270
Isophorone	U	4.8 ug/L	4.8	SW846-8270
m,p-Cresol	U	4.8 ug/L	4.8	SW846-8270
Naphthalene	U	4.8 ug/L	4.8	SW846-8270
Nitrobenzene	U	4.8 ug/L	4.8	SW846-8270
N-Nitroso-di-n-propylamine	U	4.8 ug/L	4.8	SW846-8270
N-Nitrosodiphenylamine	U	4.8 ug/L	4.8	SW846-8270
Pentachlorophenol	U	4.8 ug/L	4.8	SW846-8270
Phenanthrene	U	4.8 ug/L	4.8	SW846-8270
Phenol	JU	4.8 ug/L	4.8	SW846-8270
Pyrene	U	4.8 ug/L	4.8	SW846-8270
Pyridine	U	4.8 ug/L	4.8	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

007-011

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	UY	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		6.8 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011WA070

Collected: 4/26/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting</u> <u>Error (+/-)</u>	<u>Detect</u> <u>Limit</u>	<u>Method</u>
METAL						
Aluminum	*	422	mg/L		0.2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic	U	0.1	mg/L		0.1	SW846-6020
Barium	*B	2.8	mg/L		0.05	SW846-6020
Beryllium	J	0.041	mg/L		0.001	SW846-6020
Cadmium	X	0.0102	mg/L		0.0006	SW846-6020
Calcium		61.9	mg/L		1	SW846-6010B
Chromium	*NU	1	mg/L		1	SW846-6020
Cobalt	*	0.269	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	938	mg/L		0.5	SW846-6010B
Lead	*N	0.309	mg/L		0.013	SW846-6020
Magnesium		37.2	mg/L		0.025	SW846-6010B
Manganese	*X	20.5	mg/L		0.5	SW846-6020
Mercury	X	0.00025	mg/L		0.0001	SW846-7470A
Molybdenum	*N	0.0459	mg/L		0.001	SW846-6020
Nickel	*N	0.584	mg/L		0.5	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	BU	0.001	mg/L		0.001	SW846-6020
Sodium	B	23.9	mg/L		0.5	SW846-6010B
Thallium	X	0.00586	mg/L		0.002	SW846-6020
Uranium	B	0.031	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*	2.46	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00476	mg/L		0.001	SW846-6020
Barium, Dissolved		0.301	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved		0.00081	mg/L		0.0006	SW846-6020
Calcium, Dissolved		38.4	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0349	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved		9.14	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.6	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	8.32	mg/L		0.05	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved		0.00224	mg/L		0.001	SW846-6020
Nickel, Dissolved		0.0216	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00673	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		32.5	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.047	mg/L		0.02	SW846-6020

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.194	pCi/L	0.0659	0.0489	RL-7128
Activity of U-235	U	0.00601	pCi/L	0.0109	0.0406	RL-7128
Alpha activity	MX	57.9	pCi/L	5.81	4.99	SW846-9310
Americium-241	U	0.00779	pCi/L	0.0213	0.0601	RL-7128
Beta activity	X	61.9	pCi/L	3.1	5.31	SW846-9310
Cesium-137	U	-0.249	pCi/L	0.499	0.898	RL-7124
Neptunium-237	U	-0.004	pCi/L	0.0007	0.0645	RL-7128
Plutonium-238	U	0.00583	pCi/L	0.0111	0.0403	RL-7128
Plutonium-239/240	U	-0.0077	pCi/L	0.0062	0.0358	RL-7128
Technetium-99		16.7	pCi/L	0.719	0.711	RL-7100
Thorium-228		0.155	pCi/L	0.0574	0.134	RL-7128
Thorium-230	U	0.0302	pCi/L	0.0452	0.172	RL-7128
Thorium-232	U	0.0272	pCi/L	0.0289	0.0836	RL-7128
Thorium-234	U	55.9	pCi/L	112	24.8	RL-7124
Uranium		9.56	pCi/L	3.32	0.473	RL-7128
Uranium-234		4.39	pCi/L	0.266	0.357	RL-7128
Uranium-234	U	0.0271	pCi/L	0.0343	0.352	RL-7128
Uranium-238		4.97	pCi/L	0.281	0.0665	RL-7128
Uranium-238	U	0.058	pCi/L	0.0293	0.0606	RL-7128

SVOA

1,2,4-Trichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Chlorophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.7 ug/L	4.7	SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7	SW846-8270
Acenaphthene	U	4.7 ug/L	4.7	SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7	SW846-8270
Anthracene	U	4.7 ug/L	4.7	SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7	SW846-8270
Benzenemethanol	U	4.7 ug/L	4.7	SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7	SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzo(ghi)perylene	U	4.7 ug/L	4.7	SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzoic acid	UX	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-ethylhexyl)phthalate		5.2 ug/L	4.7	SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Chrysene	U	4.7 ug/L	4.7	SW846-8270
Dibenz(a,h)anthracene	U	4.7 ug/L	4.7	SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7	SW846-8270
Diethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-butyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7	SW846-8270
Fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Fluorene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorocyclopentadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.7 ug/L	4.7	SW846-8270
Isophorone	U	4.7 ug/L	4.7	SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7	SW846-8270
Naphthalene	U	4.7 ug/L	4.7	SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7	SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7	SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7	SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7	SW846-8270
Phenanthrene	U	4.7 ug/L	4.7	SW846-8270
Phenol	JU	4.7 ug/L	4.7	SW846-8270
Pyrene	U	4.7 ug/L	4.7	SW846-8270
Pyridine	U	4.7 ug/L	4.7	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	UY	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		91 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011WA080

Collected: 4/26/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	*	488	mg/L		0.2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic		0.481	mg/L		0.1	SW846-6020
Barium	*B	10.7	mg/L		0.5	SW846-6020
Beryllium	J	0.063	mg/L		0.001	SW846-6020
Cadmium	X	0.02	mg/L		0.0006	SW846-6020
Calcium		53.2	mg/L		1	SW846-6010B
Chromium	*N	1.08	mg/L		1	SW846-6020
Cobalt	*	2.07	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	2460	mg/L		0.5	SW846-6010B
Lead	*N	0.393	mg/L		0.013	SW846-6020
Magnesium		34	mg/L		0.025	SW846-6010B
Manganese	*X	72.4	mg/L		0.5	SW846-6020
Mercury	X	0.00035	mg/L		0.0001	SW846-7470A
Molybdenum	*N	0.0415	mg/L		0.001	SW846-6020
Nickel	*N	1.15	mg/L		0.5	SW846-6020
Selenium		0.00505	mg/L		0.005	SW846-6020
Silver	B	0.00571	mg/L		0.001	SW846-6020
Sodium	B	24.4	mg/L		0.5	SW846-6010B
Thallium	X	0.0084	mg/L		0.002	SW846-6020
Uranium	B	0.0858	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*	4.12	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00561	mg/L		0.001	SW846-6020
Barium, Dissolved		0.616	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved		0.00072	mg/L		0.0006	SW846-6020
Calcium, Dissolved		36.6	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.108	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	BU	0.05	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.7	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	12.8	mg/L		0.5	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Nickel, Dissolved		0.0233	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00692	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		35.6	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.0381	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

007-011

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235	U	-0.0059	pCi/L	0.0084	0.0438	RL-7128
Activity of U-235		0.322	pCi/L	0.0798	0.0507	RL-7128
Alpha activity	MX	123	pCi/L	8.85	5.21	SW846-9310
Americium-241	U	0.00235	pCi/L	0.0144	0.059	RL-7128
Beta activity	X	116	pCi/L	4.52	5.39	SW846-9310
Cesium-137	U	-0.16	pCi/L	0.32	0.926	RL-7124
Neptunium-237	U	0.00524	pCi/L	0.0183	0.0639	RL-7128
Plutonium-238	U	0.00543	pCi/L	0.0106	0.0392	RL-7128
Plutonium-239/240	U	0.00465	pCi/L	0.0106	0.0351	RL-7128
Technetium-99	B	45.7	pCi/L	11	14.8	RL-7100
Thorium-228		0.196	pCi/L	0.0633	0.132	RL-7128
Thorium-230	U	0.0871	pCi/L	0.0527	0.165	RL-7128
Thorium-232	U	-0.0030	pCi/L	0.0015	0.082	RL-7128
Thorium-234	U	113	pCi/L	227	26	RL-7124
Uranium		15.3	pCi/L	3.89	0.478	RL-7128
Uranium-234	U	0.03	pCi/L	0.0393	0.355	RL-7128
Uranium-234		6.79	pCi/L	0.331	0.357	RL-7128
Uranium-238	U	0.0224	pCi/L	0.0262	0.065	RL-7128
Uranium-238		8.14	pCi/L	0.36	0.0705	RL-7128

SVOA

1,2,4-Trichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Chlorophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.7 ug/L	4.7	SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7	SW846-8270
Acenaphthene	U	4.7 ug/L	4.7	SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7	SW846-8270
Anthracene	U	4.7 ug/L	4.7	SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7	SW846-8270
Benzenemethanol	U	4.7 ug/L	4.7	SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7	SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzo(ghi)perylene	U	4.7 ug/L	4.7	SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzoic acid	UX	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	4.7 ug/L	4.7	SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Chrysene	U	4.7 ug/L	4.7	SW846-8270
Dibenz(a,h)anthracene	U	4.7 ug/L	4.7	SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7	SW846-8270
Diethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-butyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7	SW846-8270
Fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Fluorene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorocyclopentadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.7 ug/L	4.7	SW846-8270
Isophorone	U	4.7 ug/L	4.7	SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7	SW846-8270
Naphthalene	U	4.7 ug/L	4.7	SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7	SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7	SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7	SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7	SW846-8270
Phenanthrene	U	4.7 ug/L	4.7	SW846-8270
Phenol	JU	4.7 ug/L	4.7	SW846-8270
Pyrene	U	4.7 ug/L	4.7	SW846-8270
Pyridine	U	4.7 ug/L	4.7	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene	U	5 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	UY	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene		120 ug/L	1	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

PaducahOREIS Download
12/18/2007

007-011

BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011WA090

Collected: 4/26/2007

Media Type: WG

Sample Type: REG

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum	*	998	mg/L		2	SW846-6010B
Antimony	*BNU	0.005	mg/L		0.005	SW846-6020
Arsenic		0.22	mg/L		0.1	SW846-6020
Barium	*B	8.54	mg/L		0.5	SW846-6020
Beryllium	J	0.0732	mg/L		0.001	SW846-6020
Cadmium	X	0.0197	mg/L		0.0006	SW846-6020
Calcium		61.3	mg/L		1	SW846-6010B
Chromium	*N	1.46	mg/L		1	SW846-6020
Cobalt	*	1.32	mg/L		0.1	SW846-6020
Copper	*NU	2	mg/L		2	SW846-6020
Iron	*	2410	mg/L		0.5	SW846-6010B
Lead	*N	0.489	mg/L		0.013	SW846-6020
Magnesium		38.8	mg/L		0.025	SW846-6010B
Manganese	*X	58.9	mg/L		0.5	SW846-6020
Mercury	X	0.00079	mg/L		0.0003	SW846-7470A
Molybdenum	*N	0.0239	mg/L		0.001	SW846-6020
Nickel	*N	1.18	mg/L		0.5	SW846-6020
Selenium	U	0.005	mg/L		0.005	SW846-6020
Silver	B	0.00289	mg/L		0.001	SW846-6020
Sodium	B	21	mg/L		0.5	SW846-6010B
Thallium	X	0.0106	mg/L		0.002	SW846-6020
Uranium	B	0.093	mg/L		0.001	SW846-6020
Vanadium	*U	2	mg/L		2	SW846-6020
Zinc	*	4.28	mg/L		2	SW846-6020
METAL-D						
Aluminum, Dissolved	U	0.2	mg/L		0.2	SW846-6010B
Antimony, Dissolved	U	0.005	mg/L		0.005	SW846-6020
Arsenic, Dissolved		0.00608	mg/L		0.001	SW846-6020
Barium, Dissolved		0.354	mg/L		0.005	SW846-6020
Beryllium, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Cadmium, Dissolved	U	0.0006	mg/L		0.0006	SW846-6020
Calcium, Dissolved		34.8	mg/L		1	SW846-6010B
Chromium, Dissolved	U	0.01	mg/L		0.01	SW846-6020
Cobalt, Dissolved		0.0668	mg/L		0.001	SW846-6020
Copper, Dissolved	UX	0.02	mg/L		0.02	SW846-6020
Iron, Dissolved	B	0.057	mg/L		0.05	SW846-6010B
Lead, Dissolved	U	0.0013	mg/L		0.0013	SW846-6020
Magnesium, Dissolved		12.3	mg/L		0.025	SW846-6010B
Manganese, Dissolved	X	7.24	mg/L		0.05	SW846-6020
Mercury, Dissolved	NUW	0.00001	mg/L		1E-05	SW846-7470A
Molybdenum, Dissolved	U	0.001	mg/L		0.001	SW846-6020
Nickel, Dissolved		0.0171	mg/L		0.005	SW846-6020
Selenium, Dissolved		0.00775	mg/L		0.005	SW846-6020
Silver, Dissolved	NU	0.001	mg/L		0.001	SW846-6020
Sodium, Dissolved		36.9	mg/L		0.5	SW846-6010B
Thallium, Dissolved	U	0.002	mg/L		0.002	SW846-6020
Uranium, Dissolved	BU	0.001	mg/L		0.001	SW846-6020
Vanadium, Dissolved	U	0.02	mg/L		0.02	SW846-6020
Zinc, Dissolved		0.0312	mg/L		0.02	SW846-6020

*QUALIFIER Codes See attached List.

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

PPCB

PCB-1016	UX	0.1	ug/L	0.1	SW846-8082
PCB-1221	UX	0.1	ug/L	0.1	SW846-8082
PCB-1232	UX	0.1	ug/L	0.1	SW846-8082
PCB-1242	UX	0.1	ug/L	0.1	SW846-8082
PCB-1248	UX	0.1	ug/L	0.1	SW846-8082
PCB-1254	UX	0.1	ug/L	0.1	SW846-8082
PCB-1260	UX	0.1	ug/L	0.1	SW846-8082
PCB-1268	UX	0.1	ug/L	0.1	SW846-8082
Polychlorinated biphenyl	UX	0.1	ug/L	0.1	SW846-8082

RADS

Activity of U-235		0.34	pCi/L	0.0826	0.0558	RL-7128
Activity of U-235	U	-0.0069	pCi/L	0.0102	0.0497	RL-7128
Alpha activity	MX	112	pCi/L	8.26	5.16	SW846-9310
Americium-241	U	0.00859	pCi/L	0.0194	0.0628	RL-7128
Beta activity	X	138	pCi/L	5	5.37	SW846-9310
Cesium-137	U	-0.267	pCi/L	0.534	1	RL-7124
Neptunium-237	U	-0.0036	pCi/L	0.0014	0.0605	RL-7128
Plutonium-238	U	-0.0004	pCi/L	0.0068	0.0399	RL-7128
Plutonium-239/240	U	-0.0014	pCi/L	0.0064	0.0348	RL-7128
Technetium-99	B	64	pCi/L	11.4	14.8	RL-7100
Thorium-228		0.187	pCi/L	0.0598	0.131	RL-7128
Thorium-230	U	0.0331	pCi/L	0.0389	0.168	RL-7128
Thorium-232	U	0.0373	pCi/L	0.0323	0.0849	RL-7128
Thorium-234		141	pCi/L	23.5	21.7	RL-7124
Uranium		17.8	pCi/L	4.43	0.488	RL-7128
Uranium-234	U	-0.028	pCi/L	0.036	0.357	RL-7128
Uranium-234		8.71	pCi/L	0.369	0.357	RL-7128
Uranium-238	U	0.0321	pCi/L	0.0271	0.0701	RL-7128
Uranium-238		8.74	pCi/L	0.366	0.0746	RL-7128

SVOA

1,2,4-Trichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,2-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,3-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
1,4-Dichlorobenzene	U	4.7	ug/L	4.7	SW846-8270
2,4,5-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4,6-Trichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dichlorophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dimethylphenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2,4-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2,6-Dinitrotoluene	U	4.7	ug/L	4.7	SW846-8270
2-Chloronaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Chlorophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methyl-4,6-dinitrophenol	U	4.7	ug/L	4.7	SW846-8270
2-Methylnaphthalene	U	4.7	ug/L	4.7	SW846-8270
2-Methylphenol	U	4.7	ug/L	4.7	SW846-8270
2-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
2-Nitrophenol	U	4.7	ug/L	4.7	SW846-8270
3,3'-Dichlorobenzidine	U	4.7	ug/L	4.7	SW846-8270
3-Nitrobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Bromophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270
4-Chloro-3-methylphenol	U	4.7	ug/L	4.7	SW846-8270
4-Chlorobenzenamine	U	4.7	ug/L	4.7	SW846-8270
4-Chlorophenyl phenyl ether	U	4.7	ug/L	4.7	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

4-Nitrobenzenamine	U	4.7 ug/L	4.7	SW846-8270
4-Nitrophenol	JU	4.7 ug/L	4.7	SW846-8270
Acenaphthene	U	4.7 ug/L	4.7	SW846-8270
Acenaphthylene	U	4.7 ug/L	4.7	SW846-8270
Anthracene	U	4.7 ug/L	4.7	SW846-8270
Benz(a)anthracene	U	4.7 ug/L	4.7	SW846-8270
Benzenemethanol	U	4.7 ug/L	4.7	SW846-8270
Benzo(a)pyrene	U	4.7 ug/L	4.7	SW846-8270
Benzo(b)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzo(ghi)perylene	U	4.7 ug/L	4.7	SW846-8270
Benzo(k)fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Benzoic acid	UX	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethoxy)methane	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroethyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-chloroisopropyl) ether	U	4.7 ug/L	4.7	SW846-8270
Bis(2-ethylhexyl)phthalate	UX	4.7 ug/L	4.7	SW846-8270
Butyl benzyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Chrysene	U	4.7 ug/L	4.7	SW846-8270
Dibenz(a,h)anthracene	U	4.7 ug/L	4.7	SW846-8270
Dibenzofuran	U	4.7 ug/L	4.7	SW846-8270
Diethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Dimethyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-butyl phthalate	U	4.7 ug/L	4.7	SW846-8270
Di-n-octylphthalate	U	4.7 ug/L	4.7	SW846-8270
Fluoranthene	U	4.7 ug/L	4.7	SW846-8270
Fluorene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobenzene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorobutadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachlorocyclopentadiene	U	4.7 ug/L	4.7	SW846-8270
Hexachloroethane	U	4.7 ug/L	4.7	SW846-8270
Indeno(1,2,3-cd)pyrene	U	4.7 ug/L	4.7	SW846-8270
Isophorone	U	4.7 ug/L	4.7	SW846-8270
m,p-Cresol	U	4.7 ug/L	4.7	SW846-8270
Naphthalene	U	4.7 ug/L	4.7	SW846-8270
Nitrobenzene	U	4.7 ug/L	4.7	SW846-8270
N-Nitroso-di-n-propylamine	U	4.7 ug/L	4.7	SW846-8270
N-Nitrosodiphenylamine	U	4.7 ug/L	4.7	SW846-8270
Pentachlorophenol	U	4.7 ug/L	4.7	SW846-8270
Phenanthrene	U	4.7 ug/L	4.7	SW846-8270
Phenol	JU	4.7 ug/L	4.7	SW846-8270
Pyrene	U	4.7 ug/L	4.7	SW846-8270
Pyridine	U	4.7 ug/L	4.7	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,1-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1,2,2-Tetrachloroethane	U	5 ug/L	5	SW846-8260
1,1,2-Trichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethane	U	5 ug/L	5	SW846-8260
1,1-Dichloroethene		5.2 ug/L	5	SW846-8260
1,2,3-Trichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dibromoethane	U	5 ug/L	5	SW846-8260
1,2-Dichloroethane	U	5 ug/L	5	SW846-8260
1,2-Dichloropropane	U	5 ug/L	5	SW846-8260
1,2-Dimethylbenzene	U	5 ug/L	5	SW846-8260
2-Butanone	U	10 ug/L	10	SW846-8260

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Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

2-Chloroethyl vinyl ether	U	10 ug/L	10	SW846-8260
2-Hexanone	U	10 ug/L	10	SW846-8260
4-Methyl-2-pentanone	U	10 ug/L	10	SW846-8260
Acetone	U	10 ug/L	10	SW846-8260
Acrolein	U	10 ug/L	10	SW846-8260
Acrylonitrile	U	10 ug/L	10	SW846-8260
Benzene	U	5 ug/L	5	SW846-8260
Bromodichloromethane	U	5 ug/L	5	SW846-8260
Bromoform	U	5 ug/L	5	SW846-8260
Bromomethane	U	5 ug/L	5	SW846-8260
Carbon disulfide	U	5 ug/L	5	SW846-8260
Carbon tetrachloride	U	5 ug/L	5	SW846-8260
Chlorobenzene	U	5 ug/L	5	SW846-8260
Chloroethane	U	5 ug/L	5	SW846-8260
Chloroform	U	5 ug/L	5	SW846-8260
Chloromethane	U	5 ug/L	5	SW846-8260
cis-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
cis-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Dibromochloromethane	U	5 ug/L	5	SW846-8260
Dibromomethane	U	5 ug/L	5	SW846-8260
Dichlorodifluoromethane	JU	5 ug/L	5	SW846-8260
Ethyl methacrylate	U	5 ug/L	5	SW846-8260
Ethylbenzene	U	5 ug/L	5	SW846-8260
Iodomethane	U	5 ug/L	5	SW846-8260
m,p-Xylene	U	10 ug/L	10	SW846-8260
Methylene chloride	U	5 ug/L	5	SW846-8260
Styrene	U	5 ug/L	5	SW846-8260
Tetrachloroethene	U	5 ug/L	5	SW846-8260
Toluene	UY	5 ug/L	5	SW846-8260
trans-1,2-Dichloroethene	U	5 ug/L	5	SW846-8260
trans-1,3-Dichloropropene	U	5 ug/L	5	SW846-8260
Trans-1,4-Dichloro-2-butene	U	5 ug/L	5	SW846-8260
Trichloroethene	D	200 ug/L	2	SW846-8260
Trichlorofluoromethane	U	5 ug/L	5	SW846-8260
Vinyl acetate	U	10 ug/L	10	SW846-8260
Vinyl chloride	U	2 ug/L	2	SW846-8260

Paducah-OREIS Data Report

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12/18/2007

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

007011SD030

Collected: 4/24/2007

Media Type: SO

Sample Type: FR

<u>Analysis</u>	<u>Qualifiers*</u>	<u>Results</u>	<u>Units</u>	<u>Counting Error (+/-)</u>	<u>Detect Limit</u>	<u>Method</u>
METAL						
Aluminum		4690	mg/kg		18.9	SW846-6010B
Antimony	U	9.18	mg/kg		9.18	SW846-6010B
Arsenic		1.37	mg/kg		0.943	SW846-6020
Barium		16.9	mg/kg		2.36	SW846-6010B
Beryllium	BU	0.471	mg/kg		0.471	SW846-6010B
Cadmium	U	1.89	mg/kg		1.89	SW846-6010B
Calcium		826	mg/kg		94.3	SW846-6010B
Chromium		3.97	mg/kg		2.36	SW846-6010B
Cobalt	X	3	mg/kg		2.36	SW846-6010B
Copper	X	3.53	mg/kg		2.36	SW846-6020
Iron		8550	mg/kg		18.9	SW846-6010B
Lead		5.99	mg/kg		0.943	SW846-6020
Magnesium		365	mg/kg		4.71	SW846-6010B
Manganese	*N	60.9	mg/kg		2.36	SW846-6010B
Mercury	BU	0.016	mg/kg		0.016	SW846-7471
Molybdenum	U	2.36	mg/kg		2.36	SW846-6010B
Nickel	U	4.71	mg/kg		4.71	SW846-6010B
Selenium	U	0.943	mg/kg		0.943	SW846-6020
Silver	*NUX	2.36	mg/kg		2.36	SW846-6010B
Sodium	U	94.3	mg/kg		94.3	SW846-6010B
Thallium	U	1.89	mg/kg		1.89	SW846-6020
Uranium	BU	0.943	mg/kg		0.943	SW846-6020
Vanadium	X	24.9	mg/kg		2.36	SW846-6010B
Zinc	UX	18.9	mg/kg		18.9	SW846-6010B
PCCB						
PCB-1016	U	100	ug/kg		100	SW846-8082
PCB-1221	U	100	ug/kg		100	SW846-8082
PCB-1232	U	100	ug/kg		100	SW846-8082
PCB-1242	U	100	ug/kg		100	SW846-8082
PCB-1248	U	100	ug/kg		100	SW846-8082
PCB-1254	U	100	ug/kg		100	SW846-8082
PCB-1260	U	100	ug/kg		100	SW846-8082
PCB-1268	U	0.1	mg/kg		0.1	SW846-8082
Polychlorinated biphenyl	U	100	ug/kg		100	SW846-8082
RADS						
Activity of U-235	U	0.00379	pCi/g	0.0076	0.0376	RL-7128
Alpha activity		6.02	pCi/g	1.74	1.52	RL-7111
Americium-241	U	-0.0122	pCi/g	0.0031	0.0223	RL-7128
Beta activity		3.32	pCi/g	0.589	1.67	RL-7111
Cesium-137	U	0.00286	pCi/g	0.0057	0.0432	RL-7124
Cobalt-60	U	0.00343	pCi/g	0.0069	0.0379	RL-7124
Neptunium-237	U	-0.0081	pCi/g	0.0068	0.0278	RL-7128
Plutonium-238	U	0.00154	pCi/g	0.0045	0.0157	RL-7128
Plutonium-239/240	U	-0.0028	pCi/g	0.0005	0.0184	RL-7128
Technetium-99		2.57	pCi/g	1.18	1.72	RL-7100
Thorium-228		0.283	pCi/g	0.0555	0.0681	RL-7128
Thorium-230		0.182	pCi/g	0.0489	0.109	RL-7128
Thorium-232		0.452	pCi/g	0.065	0.0503	RL-7128
Thorium-234	U	0.854	pCi/g	1.71	1.15	RL-7124

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Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Uranium	U	0.152	pCi/g	0.307	0.3	RL-7128
Uranium-234	U	0.0783	pCi/g	0.03	0.138	RL-7128
Uranium-235			wt %			RL-7128
Uranium-238	U	0.0701	pCi/g	0.0268	0.124	RL-7128

SVOA

1,2,4-Trichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,2-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,3-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
1,4-Dichlorobenzene	JUX	490	ug/kg		490	SW846-8270
2,4,5-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4,6-Trichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dichlorophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dimethylphenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2,4-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2,6-Dinitrotoluene	JUX	490	ug/kg		490	SW846-8270
2-Chloronaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Chlorophenol	JUX	490	ug/kg		490	SW846-8270
2-Methyl-4,6-dinitrophenol	JUX	490	ug/kg		490	SW846-8270
2-Methylnaphthalene	JUX	490	ug/kg		490	SW846-8270
2-Methylphenol	JUX	490	ug/kg		490	SW846-8270
2-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
2-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
3,3'-Dichlorobenzidine	JUX	490	ug/kg		490	SW846-8270
3-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Bromophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Chloro-3-methylphenol	JUX	490	ug/kg		490	SW846-8270
4-Chlorobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Chlorophenyl phenyl ether	JUX	490	ug/kg		490	SW846-8270
4-Nitrobenzenamine	JUX	490	ug/kg		490	SW846-8270
4-Nitrophenol	JUX	490	ug/kg		490	SW846-8270
Acenaphthene	JUX	490	ug/kg		490	SW846-8270
Acenaphthylene	JUX	490	ug/kg		490	SW846-8270
Anthracene	JUX	490	ug/kg		490	SW846-8270
Benz(a)anthracene	JUX	490	ug/kg		490	SW846-8270
Benzenemethanol	JUX	490	ug/kg		490	SW846-8270
Benzo(a)pyrene	JUX	490	ug/kg		490	SW846-8270
Benzo(b)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzo(ghi)perylene	JUX	490	ug/kg		490	SW846-8270
Benzo(k)fluoranthene	JUX	490	ug/kg		490	SW846-8270
Benzoic acid	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethoxy)methane	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroethyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-chloroisopropyl) ether	JUX	490	ug/kg		490	SW846-8270
Bis(2-ethylhexyl)phthalate	JUX	490	ug/kg		490	SW846-8270
Butyl benzyl phthalate	JUX	490	ug/kg		490	SW846-8270
Chrysene	JUX	490	ug/kg		490	SW846-8270
Dibenz(a,h)anthracene	JUX	490	ug/kg		490	SW846-8270
Dibenzofuran	JUX	490	ug/kg		490	SW846-8270
Diethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Dimethyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-butyl phthalate	JUX	490	ug/kg		490	SW846-8270
Di-n-octylphthalate	JUX	490	ug/kg		490	SW846-8270
Fluoranthene	JUX	490	ug/kg		490	SW846-8270
Fluorene	JUX	490	ug/kg		490	SW846-8270

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BGOU07-SWMU7V

Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB

Hexachlorobenzene	JUX	490	ug/kg	490	SW846-8270
Hexachlorobutadiene	JUX	490	ug/kg	490	SW846-8270
Hexachlorocyclopentadiene	JUX	490	ug/kg	490	SW846-8270
Hexachloroethane	JUX	490	ug/kg	490	SW846-8270
Indeno(1,2,3-cd)pyrene	JUX	490	ug/kg	490	SW846-8270
Isophorone	JUX	490	ug/kg	490	SW846-8270
m,p-Cresol	JUX	490	ug/kg	490	SW846-8270
Naphthalene	JUX	490	ug/kg	490	SW846-8270
Nitrobenzene	JUX	490	ug/kg	490	SW846-8270
N-Nitroso-di-n-propylamine	JUX	490	ug/kg	490	SW846-8270
N-Nitrosodiphenylamine	JUX	490	ug/kg	490	SW846-8270
Pentachlorophenol	JUX	490	ug/kg	490	SW846-8270
Phenanthrene	JUX	490	ug/kg	490	SW846-8270
Phenol	JUX	490	ug/kg	490	SW846-8270
Pyrene	JUX	490	ug/kg	490	SW846-8270
Pyridine	JUX	490	ug/kg	490	SW846-8270

VOA

1,1,1,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,1-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2,2-Tetrachloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1,2-Trichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,1-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
1,2,3-Trichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dibromoethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloroethane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dichloropropane	U	4.98	ug/kg	4.98	SW846-8260
1,2-Dimethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
2-Butanone	U	4.98	ug/kg	4.98	SW846-8260
2-Chloroethyl vinyl ether	JU	4.98	ug/kg	4.98	SW846-8260
2-Hexanone	U	4.98	ug/kg	4.98	SW846-8260
4-Methyl-2-pentanone	U	4.98	ug/kg	4.98	SW846-8260
Acetone	U	4.98	ug/kg	4.98	SW846-8260
Acrolein	JU	4.98	ug/kg	4.98	SW846-8260
Acrylonitrile	U	4.98	ug/kg	4.98	SW846-8260
Benzene	U	4.98	ug/kg	4.98	SW846-8260
Bromodichloromethane	U	4.98	ug/kg	4.98	SW846-8260
Bromoform	U	4.98	ug/kg	4.98	SW846-8260
Bromomethane	U	4.98	ug/kg	4.98	SW846-8260
Carbon disulfide	U	4.98	ug/kg	4.98	SW846-8260
Carbon tetrachloride	U	4.98	ug/kg	4.98	SW846-8260
Chlorobenzene	U	4.98	ug/kg	4.98	SW846-8260
Chloroethane	JU	4.98	ug/kg	4.98	SW846-8260
Chloroform	U	4.98	ug/kg	4.98	SW846-8260
Chloromethane	U	4.98	ug/kg	4.98	SW846-8260
cis-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
cis-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Dibromochloromethane	U	4.98	ug/kg	4.98	SW846-8260
Dibromomethane	U	4.98	ug/kg	4.98	SW846-8260
Dichlorodifluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Ethyl methacrylate	U	4.98	ug/kg	4.98	SW846-8260
Ethylbenzene	U	4.98	ug/kg	4.98	SW846-8260
Iodomethane	U	4.98	ug/kg	4.98	SW846-8260
m,p-Xylene	U	9.97	ug/kg	9.97	SW846-8260
Methylene chloride	U	4.98	ug/kg	4.98	SW846-8260

007-011**BGOU07-SWMU7V****Burial Ground OU SWMU 7 Verticle Borings BGOU07-SWMU7VSB**

Styrene	U	4.98	ug/kg	4.98	SW846-8260
Tetrachloroethene	U	4.98	ug/kg	4.98	SW846-8260
Toluene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,2-Dichloroethene	U	4.98	ug/kg	4.98	SW846-8260
trans-1,3-Dichloropropene	U	4.98	ug/kg	4.98	SW846-8260
Trans-1,4-Dichloro-2-butene	U	4.98	ug/kg	4.98	SW846-8260
Trichloroethene	U	4.98	ug/kg	4.98	SW846-8260
Trichlorofluoromethane	U	4.98	ug/kg	4.98	SW846-8260
Vinyl acetate	U	4.98	ug/kg	4.98	SW846-8260
Vinyl chloride	U	4.98	ug/kg	4.98	SW846-8260
