

FSS Unit: L1-010-101CDescription: Waste Treatment Building Subsoil ExcavationType: Subsurface SoilClassification: 1

Original FSS Samples Collected 9/12/17 - 9/14/2017

Sample ID	ROC	MDA (pCi/g)	Highest Activity (pCi/g)	Sample ID	ROC	MDA (pCi/g)	Highest Activity (pCi/g)
L1-010-101-FS-GS-C01-SB (500ml)	Co-60	5.39E-02	5.39E-02	L1-010-101-FS-GS-C13-SB (500ml)	Co-60	5.62E-02	8.30E-02
	Cs-137	6.03E-02	3.87E-01		Cs-137	5.78E-02	4.17E-01
	Eu-152	1.07E-01	0.00E+00		Eu-152	9.99E-02	0.00E+00
L1-010-101-FS-GS-C02-SB (500ml)	Eu-154	7.52E-02	0.00E+00	L1-010-101-FS-GS-C14-SB (500ml)	Eu-154	7.01E-02	0.00E+00
	Co-60	8.44E-02	6.80E-02		Co-60	4.94E-02	5.34E-02
	Cs-137	4.86E-01	6.53E-02		Cs-137	5.29E-02	2.50E-01
L1-010-101-FS-GS-C03-SB (500ml)	Eu-152	1.14E-01	0.00E+00	L1-010-101-FS-GS-C15-SB (500ml)	Eu-152	9.63E-02	0.00E+00
	Eu-154	8.12E-02	0.00E+00		Eu-154	6.78E-02	5.58E-03
	Co-60	5.39E-02	6.26E-02		Co-60	5.76E-02	5.33E-02
L1-010-101-FS-GS-C04-SB (500ml)	Cs-137	5.72E-02	1.15E-01	L1-010-101-FJ-GS-C16-SB (500ml)	Cs-137	5.28E-02	2.81E-01
	Eu-152	9.80E-02	0.00E+00		Eu-152	1.06E-01	3.69E-02
	Eu-154	6.90E-02	0.00E+00		Eu-154	7.51E-02	3.71E-02
L1-010-101-FS-GS-C05-SB (500ml)	Co-60	4.92E-02	2.52E-01	L1-010-101-FJ-GS-C17-SB (500ml)	Co-60	6.07E-02	9.30E-02
	Cs-137	6.71E-02	3.55E+00		Cs-137	5.96E-02	1.54E+02
	Eu-152	1.38E-01	2.91E-02		Eu-152	1.14E-01	0.00E+00
L1-010-101-FS-GS-C06-SB (500ml)	Eu-154	9.67E-02	4.13E-02	L1-010-101-FJ-GS-C18-SB (500ml)	Eu-154	8.11E-02	9.16E-03
	Co-60	6.02E-02	5.03E-02		Co-60	5.75E-02	8.16E-02
	Cs-137	6.00E-02	2.44E-01		Cs-137	5.13E-02	3.97E-01
L1-010-101-FS-GS-C07-SB (500ml)	Eu-152	1.01E-01	0.00E+00	L1-010-101-FJ-GS-C19-SB (500ml)	Eu-152	9.60E-02	0.00E+00
	Eu-154	6.99E-02	0.00E+00		Eu-154	6.77E-02	1.71E-02
	Co-60	6.59E-02	1.48E-01		Co-60	5.94E-02	6.80E-02
L1-010-101-FS-GS-C08-SB (500ml)	Cs-137	5.37E-02	6.42E-01	L1-010-101-FJ-GS-C20-SB (500ml)	Cs-137	5.47E-02	4.55E-01
	Eu-152	1.05E-01	0.00E+00		Eu-152	9.97E-02	0.00E+00
	Eu-154	7.35E-02	0.00E+00		Eu-154	6.95E-02	0.00E+00
L1-010-101-FS-GS-C09-SB (500ml)	Co-60	6.07E-02	7.43E-02	L1-010-101-FR-GS-C01-SB (1500ml composite down to 1m)	Co-60	5.85E-02	8.01E-02
	Cs-137	5.53E-02	3.31E-01		Cs-137	5.93E-02	4.52E-01
	Eu-152	1.02E-01	0.00E+00		Eu-152	1.02E-01	0.00E+00
L1-010-101-FS-GS-C10-SB (500ml)	Eu-154	7.20E-02	3.89E-02	L1-010-101-FJ-GS-C02-SB (1500ml composite down to 1m)	Eu-154	7.22E-02	4.20E-02
	Co-60	5.47E-02	3.61E-02		Co-60	3.80E-02	6.85E-02
	Cs-137	5.87E-02	1.17E-01		Cs-137	5.50E-02	3.83E-01
L1-010-101-FS-GS-C11-SB (500ml)	Eu-152	1.04E-01	9.65E-03	L1-010-101-FR-GS-C03-SB (1500ml composite down to 1m)	Eu-152	1.01E-01	1.49E-02
	Eu-154	7.28E-02	0.00E+00		Eu-154	7.11E-02	1.81E-02
	Co-60	6.20E-02	1.00E-01		Co-60	6.03E-02	4.50E-02
L1-010-101-FS-GS-C12-SB (500ml)	Cs-137	5.19E-02	2.21E-01	L1-010-101-FR-GS-C04-SB (1500ml composite down to 1m)	Cs-137	5.62E-02	3.56E-01
	Eu-152	9.73E-02	0.00E+00		Eu-152	1.02E-01	0.00E+00
	Eu-154	6.74E-02	0.00E+00		Eu-154	7.12E-02	0.00E+00
L1-010-101-FS-GS-C13-SB (500ml)	Co-60	6.27E-02	6.45E-02	L1-010-101-FR-GS-C05-SB (1500ml composite down to 1m)	Co-60	1.06E-02	3.73E-02
	Cs-137	5.45E-02	2.42E-01		Cs-137	1.12E-02	2.30E-01
	Eu-152	9.67E-02	2.08E-02		Eu-152	-	-
L1-010-101-FS-GS-C14-SB (500ml)	Eu-154	6.79E-02	0.00E+00	L1-010-101-FR-GS-C06-SB (1500ml composite down to 1m)	Eu-154	3.35E-02	0.00E+00
	Co-60	5.54E-02	7.14E-02		Co-60	1.41E-02	1.02E-02
	Cs-137	5.71E-02	5.94E-01		Cs-137	1.10E-02	6.54E-02
L1-010-101-FS-GS-C15-SB (500ml)	Eu-152	9.96E-02	0.00E+00	L1-010-101-FR-GS-C07-SB (1500ml composite down to 1m)	Eu-152	-	-
	Eu-154	7.05E-02	0.00E+00		Eu-154	3.17E-02	0.00E+00
	Co-60	5.91E-02	8.68E-02		Co-60	9.61E-03	2.38E-02
L1-010-101-FS-GS-C16-SB (500ml)	Cs-137	5.87E-02	6.91E-01	L1-010-101-FR-GS-C08-SB (1500ml composite down to 1m)	Cs-137	9.52E-03	1.21E-01
	Eu-152	1.01E-01	0.00E+00		Eu-152	-	-
	Eu-154	7.16E-02	1.53E-03		Eu-154	3.27E-02	0.00E+00
L1-010-101-FS-GS-C17-SB (500ml)	Co-60	6.10E-02	9.72E-02	NRC #4 (1500ml - counted on site for Dr. Lee)	Co-60	1.57E-01	2.25E+01
	Cs-137	5.14E-02	2.23E-01		Cs-137	3.56E-01	2.10E+02
	Eu-152	9.79E-02	0.00E+00		Eu-152	-	-
L1-010-101-FS-GS-C18-SB (500ml)	Eu-154	6.85E-02	0.00E+00		Eu-154	3.96E-01	7.45E-01

sample that
lead to
needing direct
push samples
performed

FSS Unit: L1-010-101CDescription: Waste Treatment Building Subsoil ExcavationType: Subsurface SoilClassification: 1**Direct Push FSS Samples Collected 10/16/17 - 10/18/2017**

Sample ID	ROC	MDA (pCi/g)	Highest Activity (pCi/g)	Sample ID	ROC	MDA (pCi/g)	Highest Activity (pCi/g)
<i>L1-010-101-FS-GS-C01-SB (500ml)</i>	Co-60	5.62E-02	5.70E-02	<i>L1-010-101-FS-GS-C08-SB (500ml)</i>	Co-60	5.31E-02	4.74E-02
	Cs-137	5.87E-02	7.11E-02		Cs-137	5.86E-02	6.37E-02
	Eu-152	1.09E-01	0.00E+00		Eu-152	1.13E-01	0.00E+00
	Eu-154	7.70E-02	0.00E+00		Eu-154	7.98E-02	0.00E+00
<i>L1-010-101-FS-GS-C02-SB (500ml)</i>	Co-60	5.14E-02	4.72E-02	<i>L1-010-101-FS-GS-C09-SB (500ml)</i>	Co-60	4.64E-02	3.34E-02
	Cs-137	4.40E-02	8.02E-02		Cs-137	5.20E-02	3.13E-01
	Eu-152	8.75E-02	0.00E+00		Eu-152	9.35E-02	0.00E+00
	Eu-154	6.19E-02	0.00E+00		Eu-154	6.52E-02	0.00E+00
<i>L1-010-101-FS-GS-C03-SB (500ml)</i>	Co-60	6.46E-02	6.30E-02	<i>L1-010-101-FS-GS-C10-SB (500ml)</i>	Co-60	6.48E-02	7.18E-02
	Cs-137	5.76E-02	9.30E-02		Cs-137	6.52E-02	2.21E-01
	Eu-152	1.08E-01	0.00E+00		Eu-152	1.15E-01	4.97E-02
	Eu-154	7.66E-02	9.86E-03		Eu-154	8.18E-02	3.50E-02
<i>L1-010-101-QR-GS-C03-SB (500ml)</i>	Co-60	6.83E-02	7.09E-02	<i>L1-010-101-FS-GS-C11-SB (500ml)</i>	Co-60	5.80E-02	3.46E-02
	Cs-137	5.56E-02	4.61E-02		Cs-137	6.19E-02	2.78E-01
	Eu-152	1.09E-01	8.40E-03		Eu-152	1.06E-01	0.00E+00
	Eu-154	7.67E-02	0.00E+00		Eu-154	7.49E-02	0.00E+00
<i>L1-010-101-FS-GS-C04-SB (500ml)</i>	Co-60	6.22E-02	3.56E-03	<i>L1-010-101-FS-GS-C12-SB (500ml)</i>	Co-60	6.57E-02	6.76E-02
	Cs-137	6.41E-02	1.03E-01		Cs-137	6.20E-02	1.56E-01
	Eu-152	1.11E-01	0.00E+00		Eu-152	1.14E-01	0.00E+00
	Eu-154	7.77E-02	0.00E+00		Eu-154	8.18E-02	1.18E-03
<i>L1-010-101-FS-GS-C05-SB (500ml)</i>	Co-60	4.94E-02	4.08E-02	<i>L1-010-101-FS-GS-C13-SB (500ml)</i>	Co-60	5.69E-02	6.38E-02
	Cs-137	4.77E-02	7.66E-02		Cs-137	5.30E-02	3.56E-01
	Eu-152	8.82E-02	0.00E+00		Eu-152	9.43E-02	0.00E+00
	Eu-154	6.25E-02	0.00E+00		Eu-154	6.65E-02	1.10E-02
<i>L1-010-101-FS-GS-C06-SB (500ml)</i>	Co-60	5.66E-02	7.08E-02	<i>L1-010-101-FS-GS-C14-SB (500ml)</i>	Co-60	3.70E-02	4.23E-02
	Cs-137	5.58E-02	4.43E-01		Cs-137	6.27E-02	1.41E+02
	Eu-152	1.03E-01	0.00E+00		Eu-152	1.19E-01	0.00E+00
	Eu-154	7.27E-02	0.00E+00		Eu-154	8.44E-02	6.73E-02
<i>L1-010-101-FS-GS-C07-SB (500ml)</i>	Co-60	5.32E-02	6.47E-02	<i>L1-010-101-FS-GS-C15-SB (500ml)</i>	Co-60	6.20E-02	9.39E-02
	Cs-137	5.26E-02	9.30E-02		Cs-137	5.93E-02	2.43E-01
	Eu-152	1.04E-01	0.00E+00		Eu-152	1.15E-01	0.00E+00
	Eu-154	7.28E-02	0.00E+00		Eu-154	8.09E-02	0.00E+00

FSS Unit: L1-010-101C

Description: Waste Treatment Building Subsoil Excavation

Type: Subsurface Soil

Classification: I

Samples sent to Gel for Sr-90 Analysis

Sample ID	ROC	MDA (pCi/g)	Highest Activity (pCi/g)
<i>L1-010-101-FS-GS-C06-SB (500ml)</i>	Sr-90	3.08E-01	<i>1.49E-01</i>
<i>L1-010-101-FS-GS-C14-SB (500ml)</i>	Sr-90	3.37E-01	<i>-9.77E-02</i>