FINAL STATUS SURVEY REPORT

SUBSURFACE SOIL CHARACTERIZATION AND FSS PROJECT

NUCLEAR FUEL SERVICES NORTH SITE
Erwin, Tennessee

SURVEY UNITS 4, 6, 7, 12, 16, 17, 18
APPENDIX E

PREPARED FOR:

NUCLEAR FUEL SERVICES, INC.

PREPARED BY:

AMEC FOSTER WHEELER ENVIRONMENT & INFRASTUCTURE, INC.
AMEC FOSTER WHEELER PROJECT NO. 9120071235

REVISION 0
DECEMBER 2015

WORK PERFORMED UNDER DOE CONTRACT NO. DE-AC12-04SN39427

amec
foster
wheeler

Appendix E

Field Sample Data Sheets

Appendix E.1

Field Sample Data Sheets

Survey Unit 4

MACTEC

MACTEC Development Corp.
751 Horizon Ct. Suite 104
Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 1053
Core ID #: 050	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon) Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	Ax	XA	1	✓	✓																
050	Ax	XG	1														✓				✓
050	Ax	XH	1											✓	✓	✓		✓	✓		✓

(3) "A" EFFERVESCED IN SODIUM BISULFATE

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Field Sampler: Robert Posner / _____ **Date:** 6/16/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011	**Time Collected** 1055	
Core ID #: 050	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr.:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒	Full-Suite Radiological: ☐	
Regulatory Confirmation Sample: ☐	Gamma Only: ☐	Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	BX	XA	1	✓	✓																
050	BX	XG	1											✓	✓	✓	✓	✓	✓		✓
050	BX	XH	1																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 1100
Core ID #: 050	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☒

Regulatory Confirmation Sample: ☒ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	CX	XA	1	✓	✓																✓
050	CX	XG	1														✓				✓
050	CX	XH	1											✓	✓	✓		✓	✓		✓
050	CX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected** 1115	
Core ID #: 050	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	DX	XA	1	✓	✓																
050	DX	XG	1														✓				✓
MSD-050	DX	XH	1											✓	✓	✓		✓	✓		✓
MSD-050	DX	XG	1														✓				✓
MS-050	DX	XH	1											✓	✓	✓		✓	✓		✓
MS-050	DX	XG	1														✓				✓
FD-016-050	DX	XH	1											✓	✓	✓		✓	✓		✓
FD-016-050	DX	XG	1														✓				✓
050	DX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 1123
Core ID #: 050	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	EX	XA	1	✓	✓														Cr		
050	EX	XG	1															✓	✓		✓
050	EX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 1140
Core ID #: 050	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	FX	XA	1	✓	✓																
050	FX	XG												✓	✓	✓	✓	✓	✓		✓
050	FX	XH												✓	✓	✓	✓	✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011	**Time Collected**	1146
Core ID #: 050	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
050	GX	XA	1	✓	✓																
050	GX	XG															✓				✓
050	GX	XH												✓	✓	✓		✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/30/11	Time Collected 10:20
Core ID #: 051	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pb-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11 **Time Collected** 10:22
Core ID #: 051	**Core Segment ID #:** Bx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 8010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	Bx	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	0025
Core ID #: 051	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/30/11	Time Collected 10:17
Core ID #: 051	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and ESS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐	Full-Suite Radiological: ☐	
Regulatory Confirmation Sample: ☐	Gamma Only ☐	Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	DX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	0529
Core ID #: 051	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected** 10:32
Core ID #: 051	**Core Segment ID #:** FX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by TerraCore	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	FX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/30/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected** 1635	
Core ID #: 051	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Tetra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	GX	XA	1	U	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/30/11
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NFS File Classification: DCM-23-05-02

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Phone 970.243.2861
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	1040
Core ID #: 051	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs; Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	HX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/30/11	Time Collected	0942
Core ID #: 051	Core Segment ID #: IX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon) Arsenic, Beryllium	SW 846, 8270C (Paragon) Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	IX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11	**Time Collected**	10:56
Core ID #: 052	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☒

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	AX	XA	1	✓	✓	✓	✓	✓													
052	BX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/14 **Time Collected** 10:58
Core ID #: 052	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	BX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/27/11	Time Collected 11:00
Core ID #: 052	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☒

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 1105
Core ID #: 052	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	DX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/27/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/14	**Time Collected** 1110	
Core ID #: 052	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☑ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/27/11	Time Collected	11:13
Core ID #: 052	Core Segment ID #: FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11	**Time Collected** 11:16	
Core ID #: 052	**Core Segment ID #:** 6X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	6X	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/27/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 11:30
Core ID #: 052	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	HX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 11:23
Core ID #: 052	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
052	IX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/2011 **Time Collected** 11:43
Core ID #: 053	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	Ax	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/2011 **Time Collected** 11:45
Core ID #: 053	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	BX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/24/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/24/2011 Time Collected 11:48
Core ID #: 053	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Tarra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	CX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/24/2011
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NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/2011 **Time Collected** 11:53
Core ID #: 053	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	DX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/2011 **Time Collected** 12:15
Core ID #: 053	**Core Segment ID #:** Ex

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Tetra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	Ex	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/24/11 Time Collected 1215
Core ID #: 053	Core Segment ID #: AX FX Rec 6/24/11

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/24/11	Time Collected 1305	
Core ID #: 053	Core Segment ID #: GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11	**Time Collected**	1308
Core ID #: 053	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon) Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon) Arsenic, Beryllium	SW 846, 8270C (Paragon) Semi-Volatile Organics	SW 846, 8260B (Paragon) VOCs by Terra Core	SW 846, 7196A (Paragon) Hexavalent Chromium	SW 846, 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	HX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11 **Time Collected** 1310
Core ID #: 053	**Core Segment ID #:** TX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
053	TX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 7/21/2011 Time Collected 1248
Core ID #: 054	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmatory Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
054	AX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1254
Core ID #: 054	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐ Tc-99

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
054	BX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1758
Core ID #: 654	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
054	CX	XA	1	✓	✓														

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1300
Core ID #: 054	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Core Segment ☐

Regulator Confirmation Sample ☐ Gamma Only ☐ Soil Core ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																
054	DX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1305
Core ID #: 054	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Sample ☐

Regulatory Confirmation Sample ☐ Gamma Grid ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
054	EX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** **Time Collected** 1308
Core ID #: 054	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☑

Regulatory Confirmation Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
054	FX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 13:52
Core ID #: 054	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Gamma Only ☐ Suite ☐

Regulatory Confirmation Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
054	GX	XA	1	√	√							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	**Time Collected** 1325
Core ID #: 054	**Core Segment ID #:** HX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background Sample ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**								
054	HX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1329
Core ID #: 054	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Pu Suite ☐ Other ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
054	IX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1334
Core ID #: 054	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Fill Interval ☐

Regulatory Information Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
054	JX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1103
Core ID #: 055	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Boring ☐

Regular Confirmation Sample ☐ Gamma Only ☐ Full Suite ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Metals (Target)	SW846 6010B (Target)	SW846 7471A (Target)	SW846 8260B (Target)	SW846 8270C (Target)	SW846 8330 (Target)	SW846 6020 (Target)	SW846 7196A (Target)	Mercury	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
055	AX	XA	1	✓	✓	✓	✓	✓															
055	AX	XF	1						✓														✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/20/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 7/20/2011 Time Collected 1107
Core ID #: 055	Core Segment ID #: Bx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU Sample ☐ Full Scale ☐

Regulator Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)						Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
055	Bx	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1117
Core ID #: 055	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
055	CX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** Time Collected 1133
Core ID #: 055	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Gamma Grid ☐ Site ☐

Regulatory Confirmatory Sample ☐ Gamma Grid ☐ Site ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
055	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/11 **Time Collected** BD
Core ID #: 056	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Duplicate ☐
Replicate/Confirmation Sample ☐ Gamma Only ☐ Rush Turn ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
056	EX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/11 **Time Collected** 1315
Core ID #: 055	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Regulator Confirmation Sample ☐ Sample Unit ☐ Half Split ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**															
055	Fx	XA	1	✓	✓												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1456
Core ID #: 065	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample? ☐ Field Duplicate? ☐

Regulatory Confirmation Sample? ☐ Gamma Only ☐ Full Suite? ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
065	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011	**Time Collected** 1558
Core ID #: 0616	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Field Split ☐

Regulatory Confirmation Sample ☐ Sample Dup ☐ Background ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0616	AX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1600
Core ID #: 056	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil ☐ Sediment ☐ Other ☐
Regulatory Confirmation Sampling ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
056	BX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011	**Time Collected**	1605
Core ID #: 056	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Exit Survey ☐

Regulatory Confirmation Samples ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
056	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1015
Core ID #: 056	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

☐ SWMU Sample ☐ Duplicate

☐ Regulatory Confirmation Sample ☐ Duplicate

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
056	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected** 1618
Core ID #: 0516	**Core Segment ID #:** Ex

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Swipe Sample ☐ Fill Soil ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Fill Bulk ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0516	Ex	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 12:00
Core ID #: 057	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
057	AX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 12:02
Core ID #: 057	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU 4 Sample [illegible]

[illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
057	BX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected**	12:05
Core ID #: 057	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
057	CX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/29/11 Time Collected 1208
Core ID #: 057	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
057	DX	XA	1	✓	✓	✓	✓	✓													
057	DX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected** 12:18
Core ID #: 057	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
057	EX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 12:20
Core ID #: 057	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
057	FX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected**	12:23
Core ID #: 057	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
057	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected** 12:27	
Core ID #: 057	**Core Segment ID #:** ~~3~~X 4X RGP 6/29/11		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
057	~~3~~X 4X RGP 6/29/11	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/25/11 **Time Collected** 12:30
Core ID #: 057	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
057	IX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/2011 **Time Collected** 10:00
Core ID #: 058	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
058	Ax	XA	1	✓	✓							

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/29/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/2011 **Time Collected** 1015
Core ID #: 058	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
058	BX	XA	1	✓	✓							

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Field Sampler: Robert Posner / _____ **Date:** 6/29/2011
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/29/2011 Time Collected 10:17
Core ID #: 058	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU Sample Type

Field Duplicate/Collocated Sample (Y/N) Sample Depth Split Sample (Y/N)

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
058	CX	XA	1	✓	✓	✓	✓	✓	✓												
058	CX	XF	1							✓											✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/2011	**Time Collected** 10:20	
Core ID #: 058	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
058	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/2011 **Time Collected** 10:23
Core ID #: 058	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
058	EX	XA	1	✓	✓							

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RB 6/29/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 6/29/11 **Time Collected** 10:25
Core ID #: 058	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
058	FX	XA	1	✓	✓						1	

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Field Sampler: Robert Posner / _____ **Date:** 6/29/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected**	0:27
Core ID #: 058	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
058	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 16:15	
Core ID #: 0059	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
059	AX	XA	1	✓	✓	✓	✓	✓												
059	AX	XF	1						✓											✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/23/11	Time Collected 14:20
Core ID #: 059	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
059	BX	XA	1	✓	✓		
059							

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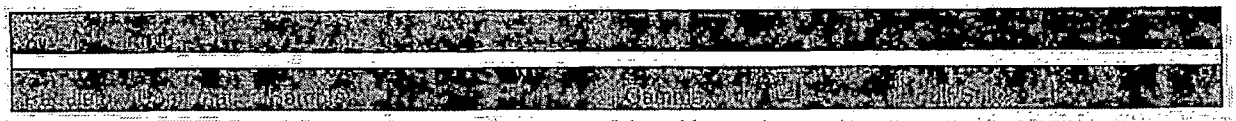
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 16:24	
Core ID #: 059	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
059	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	6/23/11	**Time Collected** 16:47
Core ID #: 059	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
059	DX	XA	1	✓	✓		

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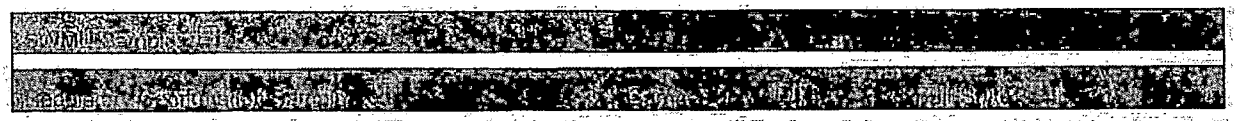
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected**	1655
Core ID #: 059	**Core Segment ID #:** 6X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
059	6X	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected**	1656
Core ID #: 059	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
059	FX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected**	16:58
Core ID #: 059	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
059	GX	[redacted] XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/25/11	**Time Collected** 1400	
Core ID #: 060	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																
060	AX	XA	1	✓	✓													
060	AX	XG	1											✓				✓
060	AX	XH	1									✓	✓	✓		✓	✓	✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/25/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/29/11	Time Collected 14:10
Core ID #: 060	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
060	BX	XA	1	✓	✓							
060	BX	XG	1								✓	✓
060	BX	XH	1								✓	✓
MS-060	BX	X6	1								✓	✓
MSD-060	BX	XH	1								✓	✓
FD-018-060	BX	X6	1								✓	✓
FD-018-060	BX	XH	1								✓	✓
MS-060	BX	XH	1								✓	✓
MSD-060	BX	XG	1								✓	✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 11:15
Core ID #: 060	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
060	CX	XA	1	✓	✓	✓	✓	✓				
060	CX	X6	1								✓	✓
060	CX	XH	1							✓	✓	✓
060	CX	XF	1				✓					✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/14	**Time Collected**	14:30
Core ID #: 060	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
060	DX	XA	1	✓	✓							
060	DX	XG	1								✓	✓
060	DX	XH	1								✓ ✓ ✓ ✓ ✓	✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/14 **Time Collected** 14:40 14:35
Core ID #: 060	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
060	EX	XA	1	✓	✓							
060	EX	XG	1								✓	✓
060	EX	XH	1								✓ ✓ ✓ ✓ ✓	✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	6/29/11	**Time Collected** 1450
Core ID #: 060	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
060	FX	XA	1	✓	✓															
060	FX	XG	1													✓				✓
060	FX	XH	1											✓	✓	✓		✓	✓	✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	6/29/11	**Time Collected** 15:00
Core ID #: 060	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
060	GX	XA	1	✓	✓															
060	GX	XG	1														✓			✓
060	GX	XH	1										✓	✓	✓		✓	✓		✓

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Field Sampler: Robert Posner / _____ **Date:** 6/29/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/25/11	**Time Collected** 15:10	
Core ID #: 060	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
060	HX	XA	1	✓	✓															
060	HX	X6	1													✓				✓
060	HX	XH	1											✓	✓	✓		✓	✓	✓

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Field Sampler: Robert Posner / _____ **Date:** 6/25/11
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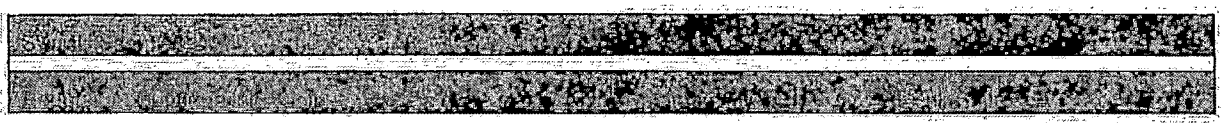
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/25/11	**Time Collected** 15:12	
Core ID #: 060	**Core Segment ID #:** IX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
060	IX	XA	1	✓	✓															
060	IX	XG	1													✓				✓
060	IX	XH	1										✓	✓	✓		✓	✓		✓

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 15:17
Core ID #: 060	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Waste ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
060	JX	XA	1	✓	✓																	
060	JX	XG	1															✓				✓
060	JX	XH	1												✓	✓	✓	✓	✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11 **Time Collected** 11:15
Core ID #: 061	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	AX	XA	1	✓	✓	✓ ✓ ✓ ✓						
061	AX	XF	1									✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected** 11:20	
Core ID #: 061	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
061	BX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11 **Time Collected** 11:22
Core ID #: 061	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	CX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	11:25
Core ID #: 061	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11 **Time Collected** 1150
Core ID #: 061	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	EX	XA	1	✓								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11 **Time Collected** 11:32
Core ID #: 061	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	FX	YA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	11:34
Core ID #: 061	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check If YES)
Core #	Segment #	Sample #										
061	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected**	11:36
Core ID #: 061	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	HX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/30/11	**Time Collected** 11:40	
Core ID #: 061	**Core Segment ID #:** IX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
061	IX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 0936
Core ID #: 062	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐

Regulatory Confirmation Sample: ☐ Comp. Soil: ☐ Surface: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
062	AX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 0940
Core ID #: 067	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmatory Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)									Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
067	BX	XA	7	✓	✓	✓	✓	✓													
067	BX	XF	1						✓												✓
067	BX	XQ	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 0946
Core ID #: 062	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Required confirmation sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
062	CX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 7/21/2011 Time Collected 0953
Core ID #: 062	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
062	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1550
Core ID #: 063	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background Sample ☐ Confirmation Sample ☐ Gamma Only ☐ Exit Survey ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
063	Ax	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 7/21/2011 Time Collected 1554
Core ID #: 063	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample ☐

Regulatory Confirmation Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
063	BX	XA	1	✓	✓	✓	✓	✓				
063	BX	XF	1					✓				✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 7/21/2011	Time Collected 1559
Core ID #: 063	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample ☐ Regulatory Confirmation Sample ☐ Gamma Grid ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
063	CX	XA	1	✓	✓															

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011	**Time Collected** 1407
Core ID #: 063	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background Sample ☐

Regulatory Confirmation Sample ☐ Survey Unit ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
063	DX	XA	1	✓	✓												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1710
Core ID #: 063	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample

Radiation Confirmation Sample

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
063	EX	XA	1	✓	✓							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected**
Core ID #: 063	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
063	FX	XA	1	✓	✓							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4 (7/21/2011)	**Date Collected** 7/21/2011 **Time Collected**
Core ID #: ~~ESS~~ 052	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Samples

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
052	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected**
Core ID #: 063	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
063	HX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	10:30
Core ID #: 064	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background Sample ☐ Duplicate ☐ Rinsate ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
064	AX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11	Time Collected 10:33	
Core ID #: 064	Core Segment ID #: BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client:	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	BX	XA	1	✓	✓							

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Field Sampler: Robert Posner / _____ **Date:** 6/29/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11	Time Collected	10:37
Core ID #: 064	Core Segment ID #: CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	CX	XA	1	✓	✓							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/28/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11 Time Collected 10:42
Core ID #: 064	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ID: [illegible]

Remarks: Continuous Sample [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	10:45
Core ID #: 064	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	EX	XA	1	✓	✓							

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Field Sampler: Robert Posner / _____ **Date:** 6/24/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11	Time Collected	10:56
Core ID #: 064	Core Segment ID #: FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU MH Sample ID: [illegible]

Beg Incremental Sample #: [illegible] Core Segment: [illegible] Field Split: [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	FX	XA	1	✓	✓							

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Field Sampler: Robert Posner / [signature] **Date:** 6/24/11
(Print and Sign)

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 11:16
Core ID #: 064	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
064	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 065	**Time Collected**	14:35
Core ID #: 065	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Samples ☐ | Regulatory Confirmation Samples ☐ | Gamma Only ☐ | Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
065	AX	XA	1	✓	✓	✓	✓	✓	✓													
065	AX	XF	1						✓													✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 9:55
Core ID #: 065	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐
Regulatory Confirmation Sample ☐ QA/QC ☐ Grab Sample ☐ Split Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
065	BX	XA	1	✓	✓															

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/28/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 14:42
Core ID #: 065	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Soil/Liquid Sample ☐ Air Filter ☐

Fragile/Low Consistency Sample ☐ Cement/Core ☐ Other ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
065	CX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	14:45
Core ID #: 065	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Boring ☐
Regulatory Confirmation Sample ☐ Geo material ☐ Hillside ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
065	DX	XA	1	✓	✓																

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	1510
Core ID #: 065	**Core Segment ID #:** Ex		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Required Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
065	Ex	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/28/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	5:25
Core ID #: 065	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU / Sample ☐
Regulatory Confirmation Sample ☐ Sample - AOC ☐ Drill Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
065	FX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11	Time Collected 1530	
Core ID #: 065	Core Segment ID #: GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Recovery Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
065	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected**	1532
Core ID #: 065	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: X

Regulatory Confirmatory Sample: / Gamma Walkover: /

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
065	HX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 1535
Core ID #: 065	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample [redacted]

Regulatory Compliance Sample [redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
065	IX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 15:40
Core ID #: 065	**Core Segment ID #:** 3X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU sample [illegible]

Sample [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
065	3X	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/2011 **Time Collected** 1643
Core ID #: 0616	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SVM1/Sample 31

Regulatory Confirmation Sample 31 Survey Unit 4 Sample Type Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
0616	AX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/27/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/2011 **Time Collected** 1646
Core ID #: 066	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Swipe Sample ☐ Smear Sample ☐

Replicate/Confirmation Sample ☐ Gamma Sample ☐ Split Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
066	BX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/2011 **Time Collected** 1650
Core ID #: 0606	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Duplicate ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
0606	CX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/27/2011

NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/7/2011 **Time Collected** 1652
Core ID #: 0616	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Regulatory Confirmation Sample ☐ Characterization ☐ Other ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
0616	DX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 16:58
Core ID #: 06	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
06	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11	**Time Collected** 17:00	
Core ID #: 066	**Core Segment ID #:** GX FX Rec 6/28/11		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐

Regulatory Compliance Sample: ☐ Yes ☐ No

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
066	GX FX Rec 6/28/11	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 0922
Core ID #: 067	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Gamma Only ☐ Pad Survey ☐
Regulator Confirmation Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
067	AX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 0926
Core ID #: 067	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Other ☐

Radiatory Confirmation Sample ☐ Radiation Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #				
067	BX	XA	1	✓	✓	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 6911
Core ID #: 067	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Hill Side ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	SW846 6010B/7471A Metals	SW846 6010B/7471A Metals, Soluble	SW846 6010B/7471A Metals, TCLP	SW846 8260B VOCs	SW846 8270C PAHs	SW846 8270C Pesticides/PCBs	SW846 8330B Explosives	SW846 8081A Pesticides	SW846 8082 PCBs	SW846 9056 Anions	Sample Preservation (Check if YES)
Core #	Segment #	Sample #														
067	CX	XA	1	✓	✓											

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11	**Time Collected** 0957
Core ID #: 067	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background Sample ☐ Regulatory Confirmation Sample ☐ Duplicate ☐ Trip Blank ☐ Other Site ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
067	DX	XA	1	✓	✓	✓	✓	✓													
067	DX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11	**Time Collected** 0944
Core ID #: 067	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/Mul Sample: ☐ Duplicate: ☐

Regulatory Confirmation Sample: ☐ Quarterly: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Rad Lab)	Cs-137	Co-60	Ra-226	Ra-228	Pb-212	Pb-214	Bi-214	Ac-228	Th-228	Th-230	Th-232	U-235	U-238	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
067	EX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 0940
Core ID #: 067	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Swipe/Smear Sample ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
067	FX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected** 1008	
Core ID #: 068	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Gamma Spectroscopy (Paragon)	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7742 (Paragon): Metal(s)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
068	AX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	1012
Core ID #: 068	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Background Confirmation Sample ☐ Survey Unit ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
068	BX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/2/11	**Time Collected**	1015
Core ID #: 068	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Survey Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
068	CX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	0720
Core ID #: 068	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Grab ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)													Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
068	DX	XA	1	✓		✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	0916
Core ID #: 068	**Core Segment ID #:** Ex		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU Sampled: ☑ Full-Suite Radiological: ☐

Regulatory Commitment Table: Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
068	Ex	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	0830
Core ID #: 068	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Limits: [illegible] Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
068	FX	XA	1	✓	✓						

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Field Sampler: Robert Posner I (Print and Sign) **Date:** 6/21/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	1052
Core ID #: 068	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
068	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/21/11	Time Collected	1054
Core ID #: C68	Core Segment ID #: HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
C68	HX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/21/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 11:00
Core ID #: 068	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
068	IX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	11:04
Core ID #: 068	**Core Segment ID #:** 3X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Samples: ☐ Full-Suite Radiological: ☐

Regulatory Guide 4.15 Quality Assurance for Environmental Monitoring - Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)														Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
068	3X	XA	1	✓	1																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 12:27
Core ID #: 069	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ID

Replicate / Confirmation Samples

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
069	AX	XA	1	✓	✓	✓	✓	✓	✓	✓	✓									✓
069	AX	XF	1						✓											✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/21/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 12:34
Core ID #: 066	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
066	BX	XA	1	✓	✓																

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NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 12:37
Core ID #: 069	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sampling ☐ Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
069	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/2/11	**Time Collected** 12:45	
Core ID #: 069	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
069	DX	XA	1	✓	✓						

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected**	1243
Core ID #: 069	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Regular Composite ☐ Composite ☐ Field Duplicate ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
069	EX	XA	1	✓	✓															

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/21/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected** 1300	
Core ID #: 069	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SVMU Sample ☐ | Full-Suite Radiological: ☐

Biological Contaminants Only ☐ | Short List ☐ | Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Other											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
069	FX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/21/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 1305
Core ID #: 069	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Duplicate Sample ☐ Archive Only ☐ Split Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)													Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
069	GX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected** 1355	
Core ID #: 069	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
069	HX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1044
Core ID #: 070	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Real Suite ☐ Full Suite ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Partial Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
070	AX	XA	1	X	✓													
070	AX	XG	1												X			X
070	AX	XH	1								X	X	X			X	X	X

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1047
Core ID #: 070	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☒ Background Sample ☐
Regulatory Confirmation Sample ☐ Calcine Only ☐ Fill Sure ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
070	BX	XA	1	X	X													
070	BX	XG	1												X			X
070	BX	XH	1								X	X	X		X	X		X

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Field Sampler: Robert Posner / **Date:** 7/21/2011
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011 **Time Collected** 1051
Core ID #: 070	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample [ ]

Regulatory Confirmation Sample [ ] Confirmatory [ ] Survey [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
070	CX	XA	1	X	X														
070	CX	XG	1													X			X
070	CX	XH	1								X	X	X		X	X		X	

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/21/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 0943
Core ID #: 071	**Core Segment ID #:** 4X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (HRGS)	Alpha Spectroscopy (HRGS): Am, Pu, U, Th	Pu-241 by Liquid Scint (HRGS)	Tc-99 by Liquid Scint (HRGS)	FCSS: Acetate (Paragon)	SW-846 6010C (Paragon): As, Cr, Be, Mn	SW-846 6010C (Paragon): Sample Digest, Cr only	SW-846 6020B (Paragon): Sample Digest, U only	SW-846 7196A (Paragon): Cr(VI)	SW-846 7470A (Paragon): Hg		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
071	4X	XA	1	✓	✓																

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011	**Time Collected**	0947
Core ID #: 071	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 by Gamma Spec (ORISE)	Cs-137 by Gamma Spec (ORISE)	Pu-241 by Gamma Spec (ORISE)	Sr-90 by Gamma Spec (ORISE)	Tc-99 by Gamma Spec (ORISE)	Isotopic Thorium (ORISE)	Isotopic Uranium (ORISE)	Sr-90 by Rad Chem (ORISE)	Sr-90 by Rad Chem (Paragon)	Isotopic Thorium (Paragon)	Isotopic Uranium (Paragon)	Sr-90 by Rad Chem (Paragon)	Volatile Organics	SW846-8260B (Paragon) VOC-Styrene Scan	SW846-8260B (Paragon) VOC-Tetrachloroethene	SW846-8270C (Paragon) SVOC-Naphthalene	SW846-8270C (Paragon) SVOC-Pentachlorophenol	Isotopic Thorium (Paragon)	Isotopic Uranium (Paragon)	Sr-90 by Rad Chem (Paragon)	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																												
071	BX	XA	1	✓	✓																									

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 0952
Core ID #: 071	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full-Suite ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (QSD)	Rad Spectroscopy (KPA): Th, U, Pu	Pu-241 by Liquid Scint (KPA)	Sr-90 by Liquid Scint (KPA)	Pb-210 (Paragon)	Ra-226 (Paragon)	SW846-6010C (Paragon): Arsenic, Barium	SW846-8270C (Paragon): Benzo(a)pyrene	SW846-8260B (Paragon): Carbon Tetrachloride	SW846-7196A (Paragon): Hexavalent Chromium	SW846-7470A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
071	CX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓	✓	⊘ No	✗ No							
071	CX	XE	1											✓								✓
071	CX	XF	1						✓													✓

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Field Sampler: Robert Posner / _____ **Date:** 6/16/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 0955
Core ID #: 071	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (GRiS)	Am-241 by Gamma Scan (GRiS)	Pu-241 by Gamma Scan (GRiS)	Eu-152 by Gamma Spectroscopy (GRiS)	Ra-226 by Radon-222 (Paragon)	Ra-228 by Actinium-228 (Paragon)	Sr-90 by 8890 (Paragon)	Sr-90 by 8890 (Paragon)	Sr-90 by 7500 (Paragon)	Sr-90 by 7196 (Paragon)	Tc-99 by 7196 (Paragon)	Sample Preservation (Check if YES)	
Core #	Segment #	Sample #																				
071	DX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/16/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/2011 **Time Collected** 1014
Core ID #: 071	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulator Confirmation Sample: ☐ Gamma only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, ANCSL 1254 (Paragon)	SW-846 6010B (Paragon) Arsenic, Beryllium	SW 846 8270 (Paragon) Semi Volatile Organics	SW 846 8260B (Paragon) VOCs by GC/MS	SW-846 6010B (Paragon) Barium, Cadmium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
071	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/2011 Time Collected 0[illegible]
Core ID #: 071	Core Segment ID #: FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Sr-90 (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Ra-226 / Ac-227 (ORISE)	Sr-90 (Paragon)	Ra-226 / Ac-227 (Paragon)	SVOCs by 8270C (Paragon)	SVOCs by 8270C (Paragon)	SVOCs by 8260B (Paragon)	VOCs by TerraCore	SVOCs by 8270C (Paragon)	Chromium (Hexavalent)	Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
071	FX	XA	1	✓	✓																			

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Field Sampler: Robert Posner / [signature] **Date:** 6/16/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/2011 Time Collected 1022
Core ID #: 071	Core Segment ID #: GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma (ORISE)	Alpha Spectroscopy (ORISE)	Pu-241 (ORISE)	Tc-99 (ORISE)	Gamma Spectroscopy (ORISE)	ECS Radium-226 (Paragon)	SW-846 6010B (Paragon) Arsenic, Barium	SW-846 6020 (Paragon) Selenium, Uranium	SW-846 8260B (Paragon) VOCs	SW-846 8270C (Paragon) SVOCs	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
071	GX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 0910	
Core ID #: 072	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SW/MU Sample ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																	
072	AX	XA	1	✓	✓	✓	✓	✓											
072	AX	XF	1						✓										✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 0913
Core ID #: 072	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
072	BX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 0918
Core ID #: 072	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
072	CX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 0945	
Core ID #: 072	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Sample Type: [ ] Routine Sample [ ] Duplicate Sample [ ] Gamma Only [ ] Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
072	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 0958	
Core ID #: 072	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SW(M) Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
072	EX	XA	1	✓	✓							

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Field Sampler: Robert Posner / _____ **Date:** 6/28/11
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 0941	
Core ID #: 072	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check If YES)
Core #	**Segment #**	**Sample #**										
072	FX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 0944
Core ID #: 072	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Archive Sample ☐ Duplicate Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
072	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 0947
Core ID #: 072	**Core Segment ID #:** HX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample

Remediation Support Sample

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
072	HX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11 **Time Collected** 15:40
Core ID #: 073	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																					
073	Ax	XA	1	✓	✓																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/14 **Time Collected** 15:46
Core ID #: 073	**Core Segment ID #:** Bx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
073	Bx	XA	1	✓	✓		

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Field Sampler: Robert Posner / _____ **Date:** 6/24/14
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11 **Time Collected** 15:50
Core ID #: 073	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Point ID: [redacted]
Facility Characterization Sample: [redacted] Sample Family: [redacted] Fill Site: [redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]														Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
073	CX	XA	1	✓	✓	✓	✓	✓												
073	CX	XF	1						✓											✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11 **Time Collected** 15:56
Core ID #: 073	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)	
Core #	Segment #	Sample #																				
073	DX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11 **Time Collected** 15:58
Core ID #: 073	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
073	EX	XA	1	✓	✓																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/11	Time Collected 1112
Core ID #: 074	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, 8082 (7242 Paragon)	SW-846 6010C (Paragon) Target Analytes	SW-846 8270D (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by trace	SW-846 6020A (Paragon) Uranium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
674	AX	XA	1	✓	✓	✓	✓	✓												
074	AX	XF	1						✓											✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/17/11

NFS File Classification: DCM-23-05-02

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RCL 6/17/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 6/17/11 **Time Collected** 1116
Core ID #: 074	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Metals (Paragon)	SW846 6010C (Paragon): Arsenic, Barium	SW846 6010C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs	SW846 8260B (Paragon): VOCs (Low Level)	SW846 7196A (Paragon): Hexavalent Chromium	SW846 9056A (Paragon): Nitrate			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
074	BX	XA	1	✓	✓																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11	**Time Collected** 1122	
Core ID #: 074	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Ra (U, Th)	Pu-241 by LLRW (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: A1016, A1221, A1232, A1242, A1248, A1254, A1260 (Paragon)	SW-846 8015C (Paragon): DRO, GRO	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs w/ Trans Core	SW-846 7196A (Paragon): Hexavalent Chromium	300.0: F, Cl, NO2, Br, NO3, PO4, SO4		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
074	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11	**Time Collected** 11:38	
Core ID #: 074	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U	Ra-226 by Liquid Scint (ORISE)	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	ICP-MS Analysis (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 6020 (Paragon): Semi-Volatile Organics	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Term. Cl	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7470A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
074	DX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/17/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	6/17/11	**Time Collected** 11:43
Core ID #: 074	**Core Segment ID #:**	EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☒ Full Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Ra-226 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclors (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs	SW-846 X10EA (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
074	EX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/17/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 11:47
Core ID #: 074	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	GFPC: Aroclor 1254 (Paragon)	SW846 6010B (Paragon): Target Analytes	SW846 8270C (Paragon): Semivolatile Organics	SW846 8260B (Paragon): VOCs	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471B (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
074	FX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/17/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11	**Time Collected** 1150	
Core ID #: 074	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U,Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA - Appdx IX (Paragon)	SW846 - 6010C (Paragon): Arsenic, Barium	SW846 - 8270C (Paragon): Semi-Volatile Organics	SW846 - 8260B (Paragon): VOCs by GC/MS	SW 846 - 7196A (Paragon): Hexavalent Chromium	SW846 - 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
074	GX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/17/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/15/11 **Time Collected** 16:10
Core ID #: 075	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (GRISE)	Alpha Spectroscopy (GRISE): Am, Pu, U	Pu-241 by Liquid Scint (GRISE)	Tc-99 by Liquid Scint (GRISE)	Ra-226 Analysis by Rn-222 Emanation (Paragon)	Sr-90 by Liquid Scint (Paragon)	SW-846 6010C (Paragon): Arsenic, Barium	SW-846 8270C (Paragon): Semivolatile Organics	SW-846 8260B (Paragon): VOCs by TCL GC	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
075	AX	X4	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected** 1612	
Core ID #: 075	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☑ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (ORISE)	Sr-90 by Liquid Scint (CRESS)	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Ra-226 by Gamma Spec (Paragon)	Ra-228 by Gamma Spec (Paragon)	Th-230 by Alpha Spec (Paragon)	Th-232 by Alpha Spec (Paragon)	U-234/238 by Alpha Spec (Paragon)	U-235 by Alpha Spec (Paragon)	SW846 8260B (Paragon) VOCs	SW846 8270C (Paragon) SVOCs	SW846 6010B (Paragon) Total Chromium	SW846 7196A (Paragon) Hexavalent Chromium	SW846 7470A (Paragon) Mercury	SW846 6020 (Paragon) Uranium	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																							
075	BX	XA	1	✓	✓																				

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected** 16:15
Core ID #: 075	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Equipment Contamination Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**								
075	CX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

6/16/11

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected** 16:15	16:18
Core ID #: 075	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (QRISE)	Alpha Spectroscopy (QRISE)	U-234 by Liquid Scint (QRISE)	Tc-99 by Liquid Scint (QRISE)	PCBs (Paragon)	SW-846 6010C (Paragon): Barium	SW-846 6010C (Paragon): Cadmium	SW-846 6010C (Paragon): Chromium	SW-846 6010C (Paragon): Lead	SW-846 7471A (Paragon): Mercury	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
075	DX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

NCE 6/16/11

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected**	16:15 16:20
Core ID #: 075	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Sr-90 by Liquid Scint (ORISE)	PCBs: Aroclors (ORISE)	SVOCs: Acenaphthene (Paragon)	SVOCs: Benzo(a)pyrene (Paragon)	SVOCs: Benzo(b)fluoranthene (Paragon)	SVOCs: Benzo(k)fluoranthene (Paragon)	SVOCs: Chrysene (Paragon)	SVOCs: Dibenz(a,h)anthracene (Paragon)	SVOCs: Indeno(1,2,3-cd)pyrene (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
075	EX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

REP 6/16/11

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 16:05 16:22
Core ID #: 075	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 by Alpha Spectroscopy (ORISE)	Pu-238, Pu-239/240 by Alpha Spectroscopy (ORISE)	Tc-99 by Liquid Scintillation (ORISE)	Isotopic Uranium by Alpha Spectroscopy (ORISE)	Radium-226 by Gamma Spectroscopy (ORISE)	Radium-226 by Gamma Spectroscopy (Paragon)	SW-846 6010C (Paragon): Arsenic, Barium	SW-846 6020A (Paragon): Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc	SW-846 6020A (Paragon): Uranium	SW-846 7470A (Paragon): Mercury	SW-846 9056 (Paragon): Fluoride, Nitrate as N, Sulfate	SW-846 9045C (Paragon): pH	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
075	FX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

NGT 6/16/11

Survey Unit ID#: 4	Date Collected 6/16/11	Time Collected 16:22	16:35
Core ID #: 075	Core Segment ID #: 6X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Samples: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
075	6X	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 13:50	
Core ID #: 076	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
076	AX	XA	1	✓	✓	✓	✓	✓												
076	AX	XF	1						✓											✓

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected: 6/23/11	Time Collected: 13:54	
Core ID #: 076	Core Segment ID #: BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
076	BX	XA	1	✓	✓																			

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/23/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 13:58	
Core ID #: 076	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample

Background Sample

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
076	CX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/23/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 1418	
Core ID #: 076	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
076	DX	XA	1	✓	✓																	

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 1424	
Core ID #: 076	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
076	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 1425	
Core ID #: 076	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Survey Sample Data

Regulatory Grid and Sample Number

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
076	FX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/23/11	Time Collected 1428
Core ID #: 076	Core Segment ID #: GX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
076	GX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 1430	
Core ID #: 076	**Core Segment ID #:** HX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
076	HX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 13:22	
Core ID #: 077	**Core Segment ID #:** A-X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services	
	Project Name:	Subsurface Characterization and FSS	
	Project Mgr:	Jeffrey Lively	
	Project No:	9120071235	

SWMU Sample [ ] Other [ ]

Regulatory Confirmation Sample [ ] Volume Only [ ] Split Sample [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
077	A-X	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11 **Time Collected** 13:30
Core ID #: 077	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
077	BX	XA	1	✓	✓							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/28/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**Time Collected** 13:32	
Core ID #: 077	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services	
	Project Name:	Subsurface Characterization and FSS	
	Project Mgr:	Jeffrey Lively	
	Project No:	9120071235	

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
077	CX	XA	1	✓	✓	✓	✓	✓													
077	CX	XF	1					✓													✓
077	CX	XQ	1					✓													✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/28/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11 Time Collected 13:35
Core ID #: 077	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
077	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11	**Time Collected** 11:15	
Core ID #: 078	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU [redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
078	AX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/29/11 **Time Collected** 11:17
Core ID #: 078	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
078	BX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/29/11	Time Collected 11:19	
Core ID #: 078	Core Segment ID #: CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
078	CX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/2011 **Time Collected** 1108
Core ID #: 079	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
079	AX	XA	1	✓	✓																	
079	AX	XF	1						✓													✓

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Field Sampler: Robert Posner / _____ **Date:** 6/23/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/2011 **Time Collected** 1212
Core ID #: 079	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (Paragon): Ra-226, Th-232, K-40	Sr-90 by Liquid Scint (Paragon)	Ra-226 by Rn-222 Emanation (Paragon)	Ra-226 by Gamma Spectroscopy (Paragon)	Ra-228 by Gamma Spectroscopy (Paragon)	Th-230 by Alpha Spectroscopy (Paragon)	Th-232 by Alpha Spectroscopy (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
079	BX	XA	1	✓	✓												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/2011	**Time Collected** 12:17	
Core ID #: 079	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample Id

Fat Man's Gulch Sample ID

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
079	CX	XA	1	✓	✓		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 06/23/2011 **Time Collected** 10:00
Core ID #: 079	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample

Required Collection Depth: 0 to 2 ft

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
079	DX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 06/23/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/2011 **Time Collected** 15:07
Core ID #: 079	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
079	EX	XA	1	✓	✓																		

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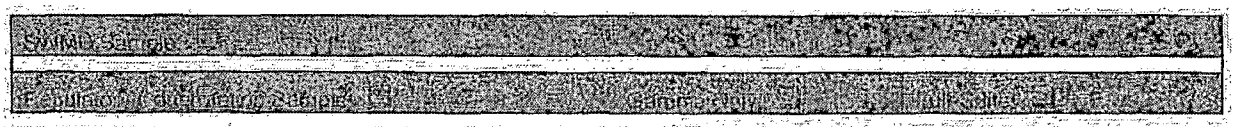
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected**	1305
Core ID #: 079	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
079	FX	XA	1	✓	✓		

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/23/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 10:00
Core ID #: 080	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulator Confirmation Sample: ☐ Gamma Only: ☐ or Full Suite: ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
080	AX	XA	1	✓	✓																	
080	AX	XB	1												1			✓			✓	
080	AX	XH	1												✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 1005
Core ID #: 080	**Core Segment ID #:** 6/22/11 BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Submission Sample: ☐ Split Only: ☐ Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (Paragon)	Sr-90 (Paragon)	Isotopic Uranium (Paragon)	Ra-226 (Paragon)	Gamma Spectroscopy (Paragon)	Isotopic Thorium (Paragon)	Sr-90 (Paragon)	Isotopic Uranium (Paragon)	Ra-226 (Paragon)	Isotopic Thorium (Paragon)	Sr-90 (Paragon)	Gamma Spectroscopy (Paragon)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
080	BX	XA	1	✓	✓																		
080	BX	XG	1															✓				✓	
080	BX	XH	1												✓	✓	✓		✓	✓		✓	

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/22/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/22/11 Time Collected 1000
Core ID #: 080	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Radiation Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spec. (Paragon)	Co-60	Ni-63	Sr-90	Tc-99	I-129	Cs-137	Eu-152	Eu-154	Eu-155	Pu-241	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
080	CX	XA	1	✓	✓																
080	CX	X6	1														✓				✓
080	CX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/22/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11	**Time Collected** 1040	
Core ID #: 080	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Residual Contamination Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (Paragon): Ra-226 (185 keV)	Gamma Spectroscopy (Paragon): Ra-226 (609 keV)	Gamma Spectroscopy (Paragon): Ra-226 (1764 keV)	Gamma Spectroscopy (Paragon): Ra-228 (911 keV)	Gamma Spectroscopy (Paragon): Ra-228 (969 keV)	RCRA 8 Metals (Paragon): Arsenic	RCRA 8 Metals (Paragon): Barium	RCRA 8 Metals (Paragon): Cadmium	RCRA 8 Metals (Paragon): Chromium	RCRA 8 Metals (Paragon): Lead	RCRA 8 Metals (Paragon): Mercury	RCRA 8 Metals (Paragon): Selenium	RCRA 8 Metals (Paragon): Silver	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
080	DX	XA	1	✓	✓																	
080	DX	XG	1															✓				✓
080	DX	XH	1											✓	✓	✓		✓	✓			✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/22/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected**	6/22/11	**Time Collected** 10:20
Core ID #: 080	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☒ Full-Suite Radiological: ☐

Background/Confirmatory Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE)	Am-241 by Gamma Spec (ORISE)	Tc-99 by Beta Spec (ORISE)	Th-230 by Alpha Spec (ORISE)	Th-232 by Alpha Spec (ORISE)	Isotopic Thorium (Paragon)	Isotopic Uranium (Paragon)	Strontium-90 (Paragon)	Gross Alpha (Paragon)	Gross Beta (Paragon)	Isotopic Plutonium (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
080	EX	XA	1	✓	✓												✓	✓	✓	✓	✓	✓
080	EX	XG	1																✓			✓
080	EX	XH	1														✓	✓	✓	✓	✓	✓

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Field Sampler: Robert Posner / _____ **Date:** 6/22/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 10:35
Core ID #: 080	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spec (PJSS)	Am-241 (PJSS)	Pu-241 (PJSS)	Gamma Spec ORISE	Am-241 ORISE	Tc-99 ORISE	Sr-90 (Paragon)	SW-846 6010B (Paragon): Arsenic	SW-846 6010B (Paragon): Barium	SW-846 6020 (Paragon): Lead	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471B (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
080	FX	XA	1		✓	✓																		
080	FX	XG	1																✓					✓
080	FX	XH	1													✓	✓	✓		✓	✓			✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** Sent Lively 6/22/11 **Time Collected** 11:24
Core ID #: 080	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
080	GX	XA	1	✓	✓																
080	GX	XG	1														✓				✓
080	GX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/22/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 0832
Core ID #: 081	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Gamma Spectroscopy (Paragon)	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by GC/MS	SW-846 6010A (Paragon): Inductively Coupled Plasma	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
081	AX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 6/17/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 0855
Core ID #: 081	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only ☒ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE)	Ra-226 by Gamma Spec (ORISE)	Th-230 by Gamma Spec (ORISE)	PCBs (Aroclors) (SW-846 8082 (Paragon))	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 6010C (Paragon) Cadmium, Chromium, Lead	SW-846 6010C (Paragon) Nickel, Selenium, Silver	SW-846 7000B (Paragon) Barium	SW-846 7471A (Paragon) Mercury	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
081	BX	XA	1	✓	✓	✓	✓	✓												✓
081	BX	XF	1						✓											✓

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Field Sampler: Robert Posner / _____ **Date:** 6/17/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11	**Time Collected**	0840
Core ID #: 081	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (NFSE)	Am Spectroscopy (NFSE): Am, Pu, U	Pu-241 by Liquid Scint (NFSE)	Tc-99 by Liquid Scint (NFSE)	RCRA Appendix IX (Paragon)	SW-846 8015B (Paragon): Semi-Volatiles	SW-846 8270C (Paragon): Semi-Volatiles	SW-846 8260B (Paragon): Volatiles	SW-846 8082 (Paragon): Polychlorinated Biphenyls	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
081	CX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / _____ **Date:** 6/17/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 0912
Core ID #: 081	**Core Segment ID #:** Dx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ | Gamma Only: ☐ | Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (QUSA)	Isotopic Th, U, Pu (QUSA)	Sr-90 by Liquid Scint (QUSA)	Tc-99 by Liquid Scint (QUSA)	RCBS Analysis 1,2,4 (Paragon)	SW846 8260B (Paragon) Acetone, Benzene	SW846 8270C (Paragon) SemiVOC II Organics	SW-846 8260B (Paragon) VOC by 5 mL Purge	SW846 7196A (Paragon) Hexavalent Chromium	SW846 6010C (Paragon) Metals		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
081	Dx	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/22/11 Time Collected 13:25
Core ID #: 082	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU [illegible] Full-Suite Radiological ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
0822	AX	XA	1	✓	✓						

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11	**Time Collected**	13:28
Core ID #: 082	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Pu-241 (ORISE)	Pu-238 (ORISE)	Sr-90 (ORISE)	Tc-99 (ORISE)	Gamma Spectroscopy (Paragon)	Sr-90 (Paragon)	Pu-241 (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Gamma Spectroscopy (Paragon): Full Suite	Sr-90 (Paragon)	Pu-241 (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
082	BX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 13:33
Core ID #: 082	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Soil Samples — Full-Suite Radiological: ☑

Regulatory Confirmatory Samples — Full-Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)													Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
~~082~~ 082	CX	XA	1	✓	✓	✓	✓	✓														
082	CX	XF	1						✓													✓

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Field Sampler: Robert Posner / _____ **Date:** 6/22/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 13:38
Core ID #: 082	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint. (Paragon)	Tc-99 by Liquid Scint. (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
082	DX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/21/11 Time Collected 0835
Core ID #: 083	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
083	AX	XA	1	✓	✓																
	✓																				

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 0840
Core ID #: 083	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Radiological Analysis Only ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
083	BX	XA	1	✓																	

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/4/11	**Time Collected** 0947
Core ID #: 083	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

QA/QC Sample ☐ Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
083	CX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/4/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/4/11 **Time Collected** 0845
Core ID #: 083	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Reason for Sample:

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
083	DX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** _____
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11 **Time Collected** 0850
Core ID #: 083	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
083	EX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/21/11	**Time Collected** 08:55
Core ID #: 083	**Core Segment ID #:** FX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
083	FX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/21/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11	**Time Collected** 4:42
Core ID #: 084	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☒

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (NFS)	K/Na Spectroscopy (NFS)	Pu-241 by Liquid Scint (NFS)	Gross Alpha (NFS)	Gross Beta (NFS)	Tc-99 by Liquid Scint (NFS)	Sr-90 by Radiochemistry (NFS)	Ra-226 by Radiochemistry (NFS)	Ra-228 by Radiochemistry (NFS)	Th-230 by Radiochemistry (NFS)	Th-232 by Radiochemistry (NFS)	U-233/234 by Radiochemistry (NFS)	U-235 by Radiochemistry (NFS)	U-238 by Radiochemistry (NFS)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
084	AX	XA	1	✓	✓	✓	✓	✓															
084	AX	XF	1						✓														✓

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Field Sampler: Robert Posner / _____ **Date:** 6/16/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected / Time Collected 1446
Core ID #: 084	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
084	BX	XA	1	✓	✓					

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/6/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 14:50
Core ID #: 084	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
084	CX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 14:52
Core ID #: 084	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (NFS): Cs-137	Gamma Spectroscopy (NFS): Co-60	Gamma Spectroscopy (NFS): Eu-152	Gamma Spectroscopy (NFS): Eu-154	Gamma Spectroscopy (NFS): Eu-155	Gamma Spectroscopy (NFS): Ra-226	Gamma Spectroscopy (NFS): Th-232	Gamma Spectroscopy (NFS): Th-228	Gamma Spectroscopy (NFS): Ra-228	Gamma Spectroscopy (NFS): Pa-231	Gamma Spectroscopy (NFS): Ac-227	Gamma Spectroscopy (NFS): Th-230	Gamma Spectroscopy (NFS): Pa-234m	Gamma Spectroscopy (NFS): U-235	Gamma Spectroscopy (NFS): U-238	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
084	DX	XA	1	✓	✓																			

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/16/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/11	Time Collected	15:20
Core ID #: 084	Core Segment ID #: EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (Paragon): Co-60, Cs-137, Eu-152, Eu-154, Eu-155, Ra-226, Ra-228, Th-228, Th-230, U-235	Am-241 by Gamma Spectroscopy (Paragon)	Cs-137 by Gamma Spectroscopy (Paragon)	Co-60 by Gamma Spectroscopy (Paragon)	Eu-152 by Gamma Spectroscopy (Paragon)	Eu-154 by Gamma Spectroscopy (Paragon)	Eu-155 by Gamma Spectroscopy (Paragon)	Ra-226 by Gamma Spectroscopy (Paragon)	Ra-228 by Gamma Spectroscopy (Paragon)	Th-228 by Gamma Spectroscopy (Paragon)	Th-230 by Gamma Spectroscopy (Paragon)	U-235 by Gamma Spectroscopy (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
084	EX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/17/11 Time Collected 13:27
Core ID #: 085	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Sr-90 by Liquid Scint (ORISE)	I-129 by Liquid Scint (ORISE)	RQB: Acute Tox (Paragon)	SW-846 6010 (Paragon): Beryllium	SW-846 8270D (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs	SW-846 6020 (Paragon): Cobalt	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
085	AX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/17/11

NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 13:52
Core ID #: 085	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (TRISEA)	Sr-90 by GFPC (TRISEA)	Pu-241 by LSC (TRISEA)	Tc-99 by LSC (TRISEA)	PCBs Aroclors (Paragon)	Sr-90 by GFPC (Paragon)	Volatile Organics	Semivolatile Organics	Dioxins/Furans	Total Cadmium	Hexavalent Chromium	Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
085	BX	XA	1	✓	✓																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 13:54
Core ID #: 085	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 by Gamma Spectroscopy (ORISE)	Pu-238 by Alpha Spectroscopy (ORISE)	Sr-90 by Liquid Scint (ORISE)	Cs-137 by Gamma Spectroscopy (Paragon)	Sr-90 by Liquid Scint (Paragon)	Sr-90 by Rad Chem (Paragon)	Gamma Spectroscopy (Paragon)	Sr-90 by Rad Chem (Paragon)	Gamma Spectroscopy (Paragon)	Sr-90 by Rad Chem (Paragon)	Gamma Spectroscopy (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
085	CX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/17/11 **Time Collected** 13:39
Core ID #: 085	**Core Segment ID #:** Dx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (QUISE)	Alpha Spectroscopy (QUISE): Am, Pu, U	Tc-99 by Liquid Scint (QUISE)	Sr-90 by Liquid Scint (QUISE)	PCBs (Aroclors) (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs	SW-846 7471B (Paragon): Mercury	SW-846 7471B (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
085	Dx	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11	**Time Collected** 0835	
Core ID #: 6/24/11 086 (per Chris)	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Background Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
086	AX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/14 **Time Collected** 8:38
Core ID #: 086	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
086	BX	XA	1	✓	✓		

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Field Sampler: Robert Posner / _____ **Date:** 6/24/14
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/24/11 Time Collected 0841
Core ID #: 056	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐

Regular Volumetric Sample ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
056	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11	**Time Collected** 9:45	
Core ID #: 086	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																			Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																						
086	DX	XA	1	✓	✓																			

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/24/11 Time Collected 0848
Core ID #: 086	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
086	EX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/24/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11 **Time Collected** 0947
Core ID #: 087	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐

Regulator Confirm. Split Sample: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
087	AX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11 **Time Collected** 0951
Core ID #: 087	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: [ ] No

Replicate / Confirmatory Sample: [ ] No Gamma Type: [ ] Soil Sample: [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #					
087	BX	XA	1	✓	✓	✓ ✓ ✓	
087	BX	XF	1			✓	✓
087	BX	XQ	1			✓	✓

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 0953	
Core ID #: 087	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
087	CX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11 **Time Collected** 10:00
Core ID #: 087	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sampled: [illegible]

Required Contaminants: [illegible] Gamma Only Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**					
087	DX	XA	1	✓	✓		

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Field Sampler: Robert Posner / _____ **Date:** 6/23/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 1348
Core ID #: 088	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☐ Full Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 (ORISE)	Pu-238, Pu-239/240 (ORISE)	Sr-90 (ORISE)	Tc-99 (ORISE)	Pu-241 (ORISE)	Pb-210 (ORISE)	Ra-226 (ORISE)	Ra-228 (ORISE)	Th-230 (ORISE)	Th-232 (ORISE)	U-234/U-235 (ORISE)	U-238 (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
088	AX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/11 Time Collected 1351
Core ID #: 088	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)													Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
088	BX	XA	1	✓	✓																	

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16/11 Time Collected 1356
Core ID #: 088	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulator Confirmation Sample: ☐ Sample Qty: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Sr-90 by Rad Chem (ORISE)	U-234/U-238 by Alpha Spec (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs Aroclors (SW846 8082 Paragon)	SW846 8260 Target Analyte List (Paragon)	SW846 8270 Paragon Semivolatile Organics	SW846 8015 Paragon Volatile Organics	SW846 6010 Paragon Total Chromium	SW846 6010 Paragon Hexavalent Chromium		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
088	CX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/16/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/16 Time Collected 1400
Core ID #: 088	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☒ Gamma Only ☐ Full Suite ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (TORSE)	Alpha Spectroscopy (TORSE)	Pu-241 by Liquid Scint (TORSE)	Tc-99 by Liquid Scint (TORSE)	Sr-90 by Liquid Scint (TORSE)	Sr-90 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (Paragon): Sr-Only (data QC'd)	Sr-90 by Liquid Scint (Paragon): Sr-Only (data not QC'd)	Sr-90 by Liquid Scint (Paragon): Dry Farm Core	Sr-90 by Liquid Scint (TORSE)	Sr-90 by Liquid Scint (TORSE): Sr-Only (data QC'd)	Sr-90 by Liquid Scint (TORSE): Sr-Only (data not QC'd)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
088	DX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓										
088	DX	XE	1										✓									✓
088	DX	XF	1						✓													✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/16/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 1408
Core ID #: 088	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Samp G.: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spec. (ORISE)	Alpha Spectr. (ORISE) Am/Pu	Pu-241 by Liq. Scint. (ORISE)	Tc-99 by Liq. Scint. (ORISE)	Sr-90 by Liq. Scint. (ORISE)	Pu-238 (Paragon)	Sr-90 (Paragon)	SW-846 6010C (Paragon)	SW-846 8270C (Paragon)	SW-846 8260B (Paragon)	SW-846 8151A (Paragon)	SW-846 8082 (Paragon)	Sample Preservation (Check if YES)	
Core #	Segment #	Sample #																					
088	EX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/16/11
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 0841
Core ID #: 089	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Sample Type: Soil/Sediment Sample — Full-Suite Radiological: ☒

Remediation Sample — Survey Unit: 4

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
089	AX	XA	1	✓	✓	✓	✓	✓												✓
089		XF	1						✓											✓

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/22/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/24/11	**Time Collected** 0840
Core ID #: 089	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Results Information Only

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
089	BX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/22/11

NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 0853
Core ID #: 089	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological ☐

Field Duplicate (Sample ID) Date Collected Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
089	CX	XA	1	✓	✓																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/22/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 13:54
Core ID #: 090	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)										Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
090	AX	XA	1	✓	✓								✓	✓	✓		✓	✓	
090	AX	X6	1													✓			✓
090	AX	X4	1										✓	✓	✓		✓	✓	✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11 **Time Collected** 15:56
Core ID #: 090	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full-Suite Radiological: ☐

Replicate of Sample # ____ Co-located with Sample # ____ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
090	BX	XA	1	✓	✓																
090	BX	X6	1														✓				✓
090	BX	XH	1										✓	✓	✓		✓	✓			✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11	**Time Collected** 14:00	
Core ID #: 090	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
090	CX	XA	1	✓	✓																
090	CX	XG	1														✓				✓
090	CX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/22/11 Time Collected 14:10
Core ID #: 090	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample: ☒ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RGBS, Andor 1253 (Paragon)	SW-846 6010C (Paragon): Al, Sb, Ba, Be, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	SW-846 6020 (Paragon): Sb, As, Ba, Be, B, Cd, Cr, Co, Cu, Pb, Mn, Mo, Ni, Se, Ag, Tl, V, Zn	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Hg	SW-846 7471A (Paragon) Hg		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
090	DX	XA	1	✓	✓																
090	DX	XG	1														✓				✓
090	DX	XH	1											✓	✓	✓		✓	✓		✓

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Appendix E.2

Field Sample Data Sheets

Survey Unit 6

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/2011	Time Collected 1002
Core ID #: 0750	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
0750	AX	XA	1	X	X	X	X	X											
0750	AX	XG	1												X				X
0750	AX	XH	1										X	X	X		X	X	X
0750	AX	XF	1					X											X
0750	AX	XQ	1					X											X

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Field Sampler: Robert Posner/ (Print and Sign) **Date:** 8/8//2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/2011	Time Collected 1000
Core ID #: 0750	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0750	BX	XA	1	X	X												
0750	BX	XG	1											X			X
0750	BX	XH	1								X	X	X		X	X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/2011	**Time Collected** 1009
Core ID #: 0750	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0750	CX	XA	1	X	X												
0750	CX	XG	1												X		X
0750	CX	XH	1									X	X	X		X	X		X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/2011	**Time Collected** 1013
Core ID #: 0750	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0750	DX	XA	1	X	X													
0750	DX	XG	1													X		X
0750	DX	XH	1									X	X	X		X	X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/2011 Time Collected 1015
Core ID #: 0750	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0750	EX	XA	1	X	X												
0750	EX	XG	1												X		X
0750	EX	XH	1									X	X	X		X	X		X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/2011	**Time Collected** 1024
Core ID #: 0750	**Core Segment ID #:** FX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**											
0750	FX	XA	1	X	X								
0750	FX	XG	1								X		X
0750	FX	XH	1								X X X	X X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/2011	Time Collected 1027
Core ID #: 0750	Core Segment ID #: GX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0750	GX	XA	1	X	X												
0750	GX	XG	1											X			X
0750	GX	XH	1								X	X	X		X	X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 0900
Core ID #: 0751	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0751	AX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/8/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 0906
Core ID #: 0751	**Core Segment ID #:** BK

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0751	BK	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11 Time Collected 0900
Core ID #: 0751	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0751	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 0920
Core ID #: 0751	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0751	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 0926	
Core ID #: 0751	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0751	EX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 8/8/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 0924	
Core ID #: 0751	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0751	FX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 0926	
Core ID #: 0751	**Core Segment ID #:** 6X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0751	6X	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/18/11 **Time Collected** 0925
Core ID #: 0751	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0751	HX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 0937	
Core ID #: 0751	Core Segment ID #: 1X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grnd)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0751	1X	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 0943
Core ID #: 0751	**Core Segment ID #:** 3X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0751	3X	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1020
Core ID #: 0752	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

S.V. MQ Sample ☐

Radiation Contaminant Sample ☐ F. I. VH ☐ Gamma Only ☐ Alpha ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0752	AX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected** 1030
Core ID #: 0752	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐
Regulatory Certification Sample ☐ Characterization ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0752	BX	XA	1	X	X													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1632
Core ID #: 075Z	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU Sample QA

Regular/Confirmation Sample QA Gamma Count QA Duplicate QA

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
075Z	CX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011**	**Time Collected** 1036
Core ID #: 0752	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SVOA Sample ☐ VOA Sample ☐ Metals Sample ☐ Cyanide Sample ☐ Radiological Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0752	DX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1040
Core ID #: 0752	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0752	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1350
Core ID #: 0153	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: 1 | Site Suite: 2 | Other: 3
Regulatory Confirmation Sample: 4 | Gamma Only: 4 | Full Suite: 5

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0153	Ax	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1354
Core ID #: 0753	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Other ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0753	BX	XA	1	✓	✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/22/2011	Time Collected 1356
Core ID #: 0753	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Survey Unit Sample ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)									Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0753	CX	XA	1	✓	✓	✓	✓	✓													
0753	CX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1400
Core ID #: 0753	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ SWMU ☐

Regulatory Confirmation Sample ☐ Sample Only ☐ Other Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0753	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/22/2011 Time Collected 1462
Core ID #: 0753	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Subsurface Soil ☐
Replicate / Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0753	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/11	**Time Collected** 15:23
Core ID #: 754	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0754	AX	1 XA	1	X	X	✓ ✓ ✓						
0754	AX	XF	1				✓					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/11 **Time Collected** 15:27
Core ID #: 0754	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0754	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/11 **Time Collected** 15:30
Core ID #: 0754	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0754	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 0810
Core ID #: 0754	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐
Regulatory Confirmation Sample ☐ Survey Unit ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0754	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/14	Time Collected 1048	
Core ID #: 0755	Core Segment ID #: A-X		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0755	AX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 8/8/14

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1051
Core ID #: 0755	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0755	BX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 1055
Core ID #: 755	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0755	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1056
Core ID #: 0755	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0755	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 1105	
Core ID #: 0755	Core Segment ID #: EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0755	EX	XA	1	X	X							

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Field Sampler: Robert Posner / [signature] (Print and Sign) **Date:** 8/8/11

NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1107	
Core ID #: 0755	**Core Segment ID #:** FX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0755	FX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/18/11	**Time Collected** 1112	
Core ID #: 0755	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0755	GX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0912
Core ID #: 0756	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]		Sample Preservation (Check if YES)
Core #	Segment #	Sample #														
0756	AX	XA	1	X	X	X	X	X		X						
0756	AX	XA	1						X							X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011 Time Collected 0915
Core ID #: 0756	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0756	BX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0720
Core ID #: 0756	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0756	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0926
Core ID #: 0756	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0756	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0935
Core ID #: 0756	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0756	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0930
Core ID #: 0756	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0756	FX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/26/2011** **Time Collected** 1515
Core ID #: 0757	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
0757	Ax	XA	1	X	X	✓	✓	✓											
0757	Ax	XF	1						✓										✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1520
Core ID #: 0757	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0757	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/26/2011**	**Time Collected** 1525
Core ID #: 0757	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
0757	CX	XA	1	X	X																

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Field Sampler: Robert Posner /s/ **Date:** 7/26/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1532
Core ID #: 0757	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0757	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/26/2011** **Time Collected** 1536
Core ID #: 0757	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0757	EX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/26/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/22/2011** **Time Collected** 1443
Core ID #: 0758	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0758	Ax	xA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1444
Core ID #: 0758	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0758	BX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1149
Core ID #: 0758	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Other Sample ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0758	CX	XA	1	√	√							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/22/2011	Time Collected
Core ID #: 0758	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample | Soil Sample | Regulatory Confirmation Sample | Drill Site

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0758	DX	XA	1	V	V												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/22/2011** Time Collected 1457
Core ID #: 0758	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Soil Sample ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0758	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/22/2011** Time Collected 1458
Core ID #: 0758	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0758	FX	XA	1	X	X					

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected** 0826
Core ID #: 0759	**Core Segment ID #:** Ax

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Bulk Soil

Regulatory Confirmation Sample ☐ Gamma Cont'rl ☐ Rad Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**								
0759	Ax	XA	1	X	X					

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected** 0926
Core ID #: 0759	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0759	BX	XA	1	X	X	X	X	X													
0759	BX	XF	1						X												X
0759	BX	XQ	1						X												X

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Field Sampler: Chris Putnam / _____ **Date:** 7/28/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 0835
Core ID #: 0759	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Bull Sp...

Sample(s) Contingency Sample ☐ Background Sample ☐ Field Split ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0759	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected** 0925
Core ID #: 0760	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☒ Subsurface ☐
Regulatory Confirmation Sample ☐ Gamma Log ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0760	AX	XA	1	X	X					
0760	AX	XG	1						X	X
0760	AX	XH	1						X	X

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Field Sampler: Chris Putnam **Date:** 7/28/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/28/2011	Time Collected 0929
Core ID #: 0760	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample [ ]

Regulatory Comm. Sample [ ] Gamma Only [ ] Full Suite [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0760	BX	XA	1	X	X												
0760	BX	XG	1										X				X
0760	BX	XH	1								X	X	X		X	X	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/11	Time Collected 0812
Core ID #: 0761	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0761	AX	XA	1	X	X	X	X	X													
0761	AX	XF	1						X												X

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 8/9/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/11	Time Collected 0815
Core ID #: 0761	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0761	BX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/11	Time Collected 0816
Core ID #: 0761	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0761	CX	XA	1	X	X																

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Field Sampler: Robert Posner / _____ **Date:** 8/9/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/11	**Time Collected** 0819
Core ID #: 0761	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0761	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/11	**Time Collected** 0821	
Core ID #: 0761	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0761	EX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1348
Core ID #: 0762	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0762	AX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/4/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011** **Time Collected** 1352
Core ID #: 0762	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0762	BX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/4/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011	Time Collected 1355
Core ID #: 0762	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0762	CX	XA	1	X	X	X X X						
0762	CX	XF	1				X					X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011 Time Collected 1400
Core ID #: 0767	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0767	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1417
Core ID #: 0762	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0762	EX	XA	1	X	X							

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Field Sampler: Chris Putnam / **Date:** 8/4/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011	**Time Collected** 1110
Core ID #: 0763	**Core Segment ID #:** Ax	

Site:	NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
		Project Name:	Subsurface Characterization and FSS
		Project Mgr:	Jeffrey Lively
		Project No:	9120071235

SWMU Sample ID

Regulatory Information Sample Only

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)									Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
0763	Ax	XA	1	X	X																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1114
Core ID #: 0763	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Surface Sample ☐ Sub-Surface ☐

Replicate ☐ Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0763	BX	XA	1	X	X					

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 7/28/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1116
Core ID #: 0763	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**															
0763	CX	XA	1	X	X												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected 1118**
Core ID #: 0763	**Core Segment ID #: DX**

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0763	DX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 7/28/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/28/2011 Time Collected 1120
Core ID #: 0763	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0763	EX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 7/28/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/28/2011 **Time Collected** 1103
Core ID #: 0763	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																
0763	FX	XA	1	X	X													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 7/28/2011** **Time Collected** 1455
Core ID #: 0763	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: [ ]

Regular [ ] Duplicate Sample [ ] Sample Type: [ ] Split [ ] Full Suite [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0763	GX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ (Print and Sign) **Date:** 7/28/2011

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/26/2011 Time Collected 1613
Core ID #: 0764	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0764	AX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 7/26/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011	**Time Collected** 1100
Core ID #: 0764	**Core Segment ID #:** B	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0764	B	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1654
Core ID #: 0764	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0764	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1123
Core ID #: 0764	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0764	DX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 7/26/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1625
Core ID #: 07164	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
07164	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1633
Core ID #: 0761	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	To-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0761	FX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011	**Time Collected** 1050
Core ID #: 0764	**Core Segment ID #:** GX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0764	GX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/27/2011 **Time Collected** 1046
Core ID #: 0764	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**											
0764	HX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/27/2011 **Time Collected** 1052
Core ID #: 0764	**Core Segment ID #:** 1X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0764	1X	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1025
Core ID #: 0765	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0765	AX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/25/2011 Time Collected 1038
Core ID #: 0765	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0765	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1045
Core ID #: 0765	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0765	CX	XA	1	X	X	✓ ✓ ✓						
0765	CX	XF	1			✓						

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 7/25/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 08/01/2011 **Time Collected** 0827
Core ID #: 07660	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full Suite Radiological ☒

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon) Am, Pu, U, Th	Dry Grind Sample (Paragon)	Tc-99 Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Appdix 123+4 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by GC/MS	SW-846 6020 (Paragon) Uranium	SW-846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
07660	AX	XA	1	X	X	✓	✓	✓													
07660	AX	XF	1						X												X

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Field Sampler: Chris Putnam / _____ **Date:** 08/01/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 08/01/2011** **Time Collected** 0833
Core ID #: 0766	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ | Full Suite Radiological ☐

Regulatory Confirmation Sample ☐ | Gamma Only ☐ | Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, Th	Alpha Spectroscopy (Paragon): Pu, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Metals 6010C (Paragon)	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846 8270C (Paragon): Semivolatile Organics	SW 846 8260B (Paragon): VOCs (only list COPC)	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
0766	BX	XA	1	X	X																	

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 08/01/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 08/01/2011 **Time Collected** 0836
Core ID #: 0716	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite Radiological ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon) Am, Pu, U, Th	Am-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclors 1254 (Paragon)	SW 846 6010C (Paragon) Arsenic, Beryllium	SW 846 8270D (Paragon) Semi-Volatile Organics	SW 846 8260B (Paragon) VOCs (Tetrachloroethene, Trichloroethene, Vinyl Chloride)	SW 846 7196A (Paragon) Hexavalent Chromium	SW 846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0716	CX	XA	1	X	X																

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 08/01/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 08/01/2011**	**Time Collected** 0853
Core ID #: 0766	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite Radiological ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #								
0766	DX	XA	1	X	X					

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FIELD SAMPLE DATA SHEET

Pad 8/11/11

Survey Unit ID#: 6	**Date Collected** 8/9/11	**Time Collected**	0847 0836
Core ID #: 0767	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	To-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0767	AX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 8/9/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/11	**Time Collected** 0841	
Core ID #: 0767	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0767	BX	XA	1	X	X							

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Field Sampler: Robert Posner / [signature] **Date:** 8/9/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/11	**Time Collected** 0844	
Core ID #: 0767	**Core Segment ID #:** Cx		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0767	Cx	XA	1	X	X							

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 8/5/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/11 Time Collected 0847
Core ID #: 0767	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0767	DX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** _____
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011**	**Time Collected** 1050
Core ID #: 0768	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	AX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/4/2011
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NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1054
Core ID #: 0768	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011**	**Time Collected** 1057
Core ID #: 0768	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1113
Core ID #: 0768	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	DX	XA	1	X	X							

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 8/4/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011	**Time Collected** 1125
Core ID #: 0768	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	EX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/4/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected**	8/9/11	**Time Collected** 1035
Core ID #: 0769	**Core Segment ID #:**	Ax	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0769	Ay	XA	1	X	X							

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 8/9/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1057
Core ID #: 0769	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0769	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected**
Core ID #: 0769	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS:	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0769	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 1642
Core ID #: 0769	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0769	DX	XA	1	X	X	✓ ✓ ✓						
0769	DX	XF	1			✓						✓

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 1047
Core ID #: 0769	Core Segment ID #: EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0769	EX	XA	1	X	X							

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Field Sampler: Robert Posner / **Date:** 8/9/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/29/2011	**Time Collected** 1330
Core ID #: 0770	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Submit Sample? [X]

Replicate, Confirmation Sample? [ ] Sample Type: [ ] Full Suite [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0770	AX	XA	1	X	X	X	X	X													
0770	AX	XG	1														X				X
0770	AX	XH	1										X	X	X		X	X			X
0770	AX	XF	1						X												X

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 7/29/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/29/2011	Time Collected 1335
Core ID #: 0770	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ID: [illegible]

Radiological Contamination Suspected: [illegible] Sample Qty: [illegible] Soil Type: [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0770	BX	XA	1	X	X																
0770	BX	XG	1														X				X
0770	BX	XH	1											X	X	X		X	X		X

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 7/29/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/29/2011	**Time Collected** 1337
Core ID #: 0770	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

SWMU Sample: [X] Full Suite [ ]

Regulatory Confirmation Sample: [ ] Gamma Only [ ] Full Suite [ ]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	SW-846 6010C (Cadmium, Arsenic, Barium	SW-846 8270D (Benzo(a)pyrene) Semi-Volatile Org	SW-846 8260B (Benzene) Volatile Organics	SW-846 6010C (Lead)	SW-846 7471A (Mercury)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #													
0770	CX	XA	1	X	X										
0770	CX	XG	1										X		X
0770	CX	XH	1							X	X	X	X	X	X

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 7/29/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/29/2011	Time Collected 1352
Core ID #: 0770	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SW/4U Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	CBS, Accelerator, Pb (Parson)	SW-846 6010C (Parson) ICP-AES, Metals	SW-846 6020A (Parson) ICP-MS, Metals	SW-846 8260B (Parson) VOCs	SW-846 7196A (Parson) Hexavalent Chromium	SW-846 7471A (Parson) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0770	DX	XA	1	X	X												
0770	DX	XG	1										X				X
0770	DX	XH	1							X	X	X		X	X		X
0770	DX	MS-0770-DX-XG											X				X
0770	DX	MS-0770-DX-XH								X	X	X		X	X		X
0770	DX	MSD-0770-DX-XG											X				X
0770	DX	MSD-0770-DX-XH								X	X	X		X	X		X

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Field Sampler: Chris Putnam / **Date:** 7/29/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/29/2011	**Time Collected** 1403
Core ID #: 0770	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: [ ] Full Suite

Replicate/Confirmation Sample: [ ] FS Sample Only [ ] Full Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Sr-90	Ni-63	Tc-99	I-129	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Pesticides)	SW-846 8260B (Volatile Organic Compounds)	SW-846 8270C (Polynuclear Aromatic Hydrocarbons)	SW-846 8260B (Purgeable Halocarbons)	SW-846 8270C (Phenols)	SW-846 7196A (Hexavalent Chromium)	SW-846 7470A (Mercury)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0770	EX	XA	1	X	X																
0770	EX	XG	1														X				X
0770	EX	XH	1											X	X	X		X	X		X

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Field Sampler: Chris Putnam / **Date:** 7/29/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 08/01/2011**	**Time Collected 0925**
Core ID #: 0771	**Core Segment ID #: 4X**	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check If YES)
Core #	**Segment #**	**Sample #**										
0771	4X	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 08/01/2011
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 08/01/2011 **Time Collected** 0930
Core ID #: 0771	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0771	BX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 08/01/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 08/01/2011** **Time Collected** 0933
Core ID #: 0771	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0771	CX	XA	1	X	X							

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Field Sampler: Chris Putnam / [redacted] **Date:** 08/01/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0855
Core ID #: 0772	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0772	AX	XA	1	X	X							

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Field Sampler: Robert Posner/ (Print and Sign) **Date:** 8/9/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0708
Core ID #: 0772	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0772	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 0912
Core ID #: 0772	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0772	CX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0918
Core ID #: 0772	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0772	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0922
Core ID #: 0772	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0772	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 1021
Core ID #: 0773	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0773	AX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/3/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 1025
Core ID #: 0773	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0773	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 1027
Core ID #: 0773	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0773	CX	XA	1	X	X							

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Field Sampler: Chris Putnam / (Print and Sign) Date: 8/3/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011 Time Collected 1054
Core ID #: 0773	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0773	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 1315
Core ID #: 0773	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0773	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected**
Core ID #: 0774	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0774	AX	XA	1	X	X	X	X	X												
0774	AY	XF	1						X											X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 1114
Core ID #: 0774	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0774	BX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/11 **Time Collected**
Core ID #: 0774	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0774	AX	XA	1	X	X							

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Field Sampler: Robert Posner I (Print and Sign) **Date:** 8/9/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1127
Core ID #: 0774	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0774	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1131
Core ID #: 0774	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0774	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0726
Core ID #: 0775	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0775	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 0730
Core ID #: 0775	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #													
0775	BX	XA	1	X	X	X	X	X							
0775	BX	XF	1						X						X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 0734
Core ID #: 0775	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0775	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected**	1330
Core ID #: 0776	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0776	AX	XA	1	X	X	X X	X					
0776	AX	XF	1				X					X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 1333
Core ID #: 0776	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0776	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1335
Core ID #: 0776	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0776	CX	XA	1	X	X															

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Field Sampler: Robert Posner / _____ **Date:** 8/9/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1337
Core ID #: 0776	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0776	DX	XA	1	X	X							

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Field Sampler: Robert Posner / **Date:** 8/9/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1347
Core ID #: 0776	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0776	EX	XA	1	X	X							

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Field Sampler: Robert Posner / **Date:** 8/9/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011 **Time Collected** 0911
Core ID #: 0777	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0777	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 0951
Core ID #: 0777	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0777	BX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0955
Core ID #: 0777	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	To-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0777	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0957
Core ID #: 0777	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0777	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 0951
Core ID #: 0777	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0777	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/5/2011** **Time Collected** 0977
Core ID #: 0778	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0778	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/5/2011 **Time Collected** 0930
Core ID #: 0778	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	To-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0778	BX	XA	1	X	X	√	X	X		X											
0778	BX	XF	1						X												X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/5/2011 Time Collected 6934
Core ID #: 0776	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #												
0776	CX	XA	1	X	X	X	X	X						
0776	CX	XP							X					X

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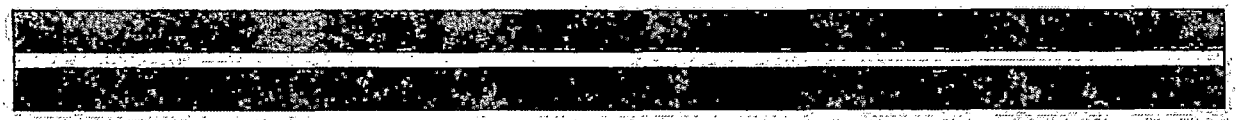
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/5/2011	**Time Collected** 0959
Core ID #: 0778	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0778	DX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/5/2011	**Time Collected** 1007
Core ID #: 0778	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0778	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1258
Core ID #: 0771	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0771	AX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/25/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1304
Core ID #: 0779	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ID

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0779	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 7/25/2011 Time Collected 1306
Core ID #: 0779	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SW Ditch

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0779	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1507
Core ID #: 0779	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sludge

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0779	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 0959
Core ID #: 0780	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0780	AX	XA	1	X	X	X	X	X													
0780	AX	XG	1														X				X
0780	AX	XH	1											X	X	X		X	X		X
0780	AX	XF	1						X												X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1005
Core ID #: 0780	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0780	BX	XA	1	X	X							
0780	BX	XG	1								X	X
0780	BX	XH	1								X X X X X X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1008
Core ID #: 0780	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0780	CX	XA	1	X	X												
0780	CX	XG	1												X		X
0780	CX	XH	1									X	X	X		X	X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1011
Core ID #: 0780	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0780	DX	XA	1	X	X							
0780	DX	XG	1								X	X
0780	DX	XH	1							X X X	X X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011 Time Collected 1237
Core ID #: 0781	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Gamma Spectroscopy (Field)
Core #	Segment #	Sample #										
0781	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1240
Core ID #: 0781	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Sample Type

Sample Condition

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Archive Preservation (Check if YES)
Core #	Segment #	Sample #																		
0781	BX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011 Time Collected 1247
Core ID #: 0781	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Core Sample

Control

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Produced Gas (Check if YES)
Core #	Segment #	Sample #										
0781	CX	XA	1	X	X	X	X	X				
0781	CX	XF	1									YES

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1254
Core ID #: 0781	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0781	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1300
Core ID #: 0781	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Sample
Type: Core

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0781	EX	XA	1	X	X															

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1347
Core ID #: 0782	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0782	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1397
Core ID #: 0782	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0782	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011	Time Collected 1352
Core ID #: 0782	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0782	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1356
Core ID #: 0782	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE); Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0782	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 0753
Core ID #: 0783	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0783	AX	XA	1	X	X	X X X						
0783	AX	XF	1				X					X

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 0756
Core ID #: 0783	Core Segment ID #: BL	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0783	BL	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/3/2011	Time Collected 0759
Core ID #: 0783	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0783	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011	**Time Collected** 0822
Core ID #: 0763	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0763	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1035
Core ID #: 0784	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ | Regulatory Confirmation Sample ☐ | Gamma Drill ☐ | Drill Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Metals 1311 (Paragon)	SW846 6010 (Paragon) Semivolatile Organics	SW846 8270 (Paragon) Semivolatile Organics	SW846 8260 (Paragon) Volatile Organics	SW846 7471A (Paragon) Mercury	SW846 7471A (Paragon) Mercury	Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0784	AX	XA	1	X	X												

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 8/2/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011** **Time Collected** 1639
Core ID #: 0784	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ SU ☐
Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Sr-90	Tc-99	Isotopic U	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 254 Parameter	SW 846 6010B (Preparation: Digestion Analysis: ICP-AES) Beryllium	SW 846 6010B (Preparation: Digestion Analysis: ICP-AES) Chromium	SW 846 6010B (Preparation: Digestion Analysis: ICP-AES) Nickel	SW 846 6010B (Preparation: Digestion Analysis: ICP-AES) Vanadium	SW 846 6010B (Preparation: Digestion Analysis: ICP-AES) Zinc	SW 846 7471A (Preparation: Digestion Analysis: CVAA) Mercury		Sample Preservation (Check If YES)
Core #	Segment #	Sample #																			
0784	BX	XA	1	X	X																

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 8/2/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011 **Time Collected** 1040
Core ID #: 0784	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Sample Set ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Sr-90 (Eberline)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sr-90 (Eberline)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0784	CX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 8/2/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1044
Core ID #: 0784	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Background ☐

Regulatory Confirmation Sample ☐ Archive Only ☐ Other ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																
0784	DX	XA	1	X	X													

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011 Time Collected 1050
Core ID #: 0784	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample ☐ Full Suite ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0784	EX	XA	1	X	X																

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 8/2/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1057
Core ID #: 0784	Core Segment ID #: FX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Samples ☐ Surface Soil ☐ Subsurface Soil ☐

Radiation Control Area ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0784	FX	XA	1	X	X																

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1400
Core ID #: 0785	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0785	AX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 7/25/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1104
Core ID #: 0785	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]		Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
0785	BX	XA	1	X	X	X	X	X											
0785	BX	XF	1						X										

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1407
Core ID #: 0785	**Core Segment ID #:** Cx

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0785	Cx	XA	1	X	X							

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Field Sampler: Robert Posner / _____ (Print and Sign) **Date:** 7/25/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/2011 **Time Collected** 1410
Core ID #: 0785	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]						Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0785	DX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/25/11 **Time Collected** 1414
Core ID #: 785	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0785	EX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/25/11

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1140
Core ID #: 0786	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0786	AX	XA	1	✓	✓															

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Field Sampler: Robert Posner / _____ **Date:** 7/22/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1145
Core ID #: 0786	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)						Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)	
Core #	**Segment #**	**Sample #**																					
0786	BX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/22/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1147
Core ID #: 0786	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0786	CX	XA	1	✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/22/2011 **Time Collected** 1154
Core ID #: 0786	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0786	DX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1055
Core ID #: 0787	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Type of Sample:

Dry/Comminut

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								(Check if YES)
Core #	Segment #	Sample #																			
0787	AX	XA	1	X	X	X	X	X													
0787	AX	XF	1						X												X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1557
Core ID #: 0787	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

VSP Sample

Laboratory Confirmation

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Chemical Preservation (Check if YES)
Core #	Segment #	Sample #										
0787	BX	XA	1	X	X							

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Field Sampler: Robert Posner / RP **Date:** 8/10/2011
(Print and Sign)

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1040
Core ID #: 0787	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SW (U Sample:

Y Confirmatory

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	[redacted]	Archive Sample (Check if YES)
Core #	Segment #	Sample #											
0787	CX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1043
Core ID #: 0787	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

QA/QC Sample:

Laboratory Contact:

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Ecosystem Conservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0787	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1047
Core ID #: 0787	Core Segment ID #: EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

QA/QC Sample:

Laboratory Confirmation:

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Archived Soil (Check if YES)
Core #	Segment #	Sample #										
0787	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011	Time Collected 1525
Core ID #: 0708	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0708	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011	**Time Collected** 1529
Core ID #: 0788	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0788	BX	XA	1	X	X							

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011	Time Collected 1530
Core ID #: 0708	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0708	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011	**Time Collected** 1540
Core ID #: 0768	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0768	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011**	**Time Collected** 1452
Core ID #: 0789	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0789	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011	Time Collected 1457
Core ID #: 0789	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0789	BX	XA	1	X	X							

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011** **Time Collected** 1508
Core ID #: 0789	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0789	CX	XA	1	X	X							

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected [illegible]
Core ID #: 0790	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

CWMU [illegible]

Regular [illegible] Off-Site [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon): VOCs by Terra Core	[illegible]	[illegible]		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0790	AX	XA	1	X	X	X	X	X													
0790	AX	XG	1														X				X
0790	AX	XH	1											X	X	X		X	X		X

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Field Sampler: Robert Posner/ [signature] (Print and Sig[illegible]) **Date:** 8/10/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1611
Core ID #: 0790	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ Area of Concern ☐
Regulated Unit Sample ☐ Area Sample ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0790	BX	XA	1	X	X													
0790	BX	XG	1											X				X
0790	BX	XH	1								X	X	X		X	X		X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1015
Core ID #: 0790	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: ☐ Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon)	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	SW 846, 6010B (Paragon): Arsenic, Beryllium	SW 846, 8260B (Paragon): VOCs by Tetra Tech	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Tetra Tech	SW 846, 7196A (Paragon): Hexavalent Chromium			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0790	CX	XA	1	X	X																
0790	CX	XG	1														X				X
0790	CX	XH	1											X	X	X		X	X		X

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Field Sampler: Robert Posner / (Print Name) Date: 8/10/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011 **Time Collected** 1100
Core ID #: 0791	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0791	AX	XA	1	X	X	X X X						
0791	AX	XF	1				A					

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Field Sampler: Robert Posner / _____ **Date:** 8/2/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1014
Core ID #: 0791	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0791	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011** **Time Collected** 1106
Core ID #: 0791	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0791	CX	XA	1	X	X							

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011** **Time Collected** 1108
Core ID #: 0791	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	To-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0791	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011 **Time Collected** 1112
Core ID #: 0791	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)						Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
0791	EX	XA	1	X	X																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 0933
Core ID #: 0762	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0762	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011 Time Collected 0936
Core ID #: 0797	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0797	BX	XA	1	X	X	✓	✓	✓													
0797	BX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 0940
Core ID #: 0797	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0797	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 0842
Core ID #: 0792	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0792	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 08/01/2011 **Time Collected** 1001
Core ID #: 0793	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0793	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/1/2011 **Time Collected** 1004
Core ID #: 0793	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0793	BX	XA	1	X	X	X	X	X												
0793	BX	XP	1						X											X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 08/01/2011 **Time Collected** 1010
Core ID #: 0793	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0793	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 08/01/2011 Correction Time Collected 0822
Core ID #: 0753	Core Segment ID #: DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0753	DX	XA	1	X	X							

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Date: 08/01/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 0916
Core ID #: 0794	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SU/MU Sample: FSS

Regulatory Confirmation: [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE): Am, Pu, U, Th	Alpha Spectroscopy (Radiochem): Am, Pu, U, Th	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #											
0794	AX	XA	1	X	X	X	V	X					
0794	AX	XF	1						X				R

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 0920
Core ID #: 0794	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

QA/QC Sample:	[redacted]
Regulatory Confirmation Sample? (Y)	Gamma Only

| Unique Sample ID Number | | | NUMBER of CONTAINERS | Sample Preparation (Dry & Grind) | Gamma Spectroscopy (NFS) | Gamma Spectroscopy (Paragon) | Alpha Spectroscopy (Paragon) | [redacted] | Gamma Spectroscopy (ORISE) | Alpha Spectroscopy (ORISE): Am, Pu, U, Th | Pu-241 by Liquid Scint (ORISE) | Tc-99 by Liquid Scint (ORISE) | [redacted] | [redacted] | [redacted]

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 0912
Core ID #: 0794	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

WMU Sample:

Laboratory Confirmation:

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Pa-234)	Alpha Spectroscopy (Pa-234): Am, Pu, U, Th			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Isotopic Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0794	CX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 0935
Core ID #: 0794	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

SWMU Sample: [redacted]

Regulatory Confirmation [redacted] Gamma Data [redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**											
0794	DX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 0917
Core ID #: 0794	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Preservation (Check if YES)
Core #	Segment #	Sample #									
0794	EX	XA	1	X	X						

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1459
Core ID #: 0795	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0795	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1502
Core ID #: 0795	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0795	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 504
Core ID #: 0795	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]		Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**											
0795	CX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1505
Core ID #: 0795	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0795	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/4/2011 Time Collected 1555
Core ID #: 0796	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
EP Yuiler 0796	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1553
Core ID #: 0796	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0796	BX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 8/4/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1555
Core ID #: 0716	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0716	CX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 8/4/2011

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/4/2011 **Time Collected** 1600
Core ID #: 0796	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0796	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011** **Time Collected** 1608
Core ID #: 0796	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0796	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1422	
Core ID #: 0797	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0797	AX	XA	1	X	X	X						
0797	AX	XF	1	[redacted]			X					X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1426	
Core ID #: 0797	**Core Segment ID #:** BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0797	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1450
Core ID #: 0797	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0797	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1440	
Core ID #: 0797	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0797	DX	XA	1	X	X							

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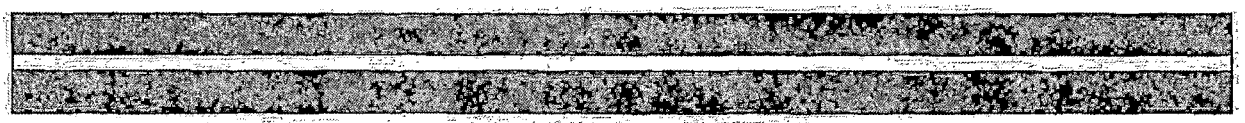
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1155	
Core ID #: 0797	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0797	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011 **Time Collected** 1128
Core ID #: 0798	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0798	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011 **Time Collected** 1131
Core ID #: OF59	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
OF59	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1133
Core ID #: 0778	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0778	DX CX RGP 8/12/11	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011** **Time Collected** 1137
Core ID #: 0756	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																		
0756	DX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011**	**Time Collected** 1140
Core ID #: 0758	**Core Segment ID #:** EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Preservation (Check if YES)	
Core #	**Segment #**	**Sample #**																				
0758	EX	XA	1	X	X																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1035
Core ID #: 0799	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Soil Fill
Regulatory Confirmation Sample | Gamma Only | Fill Soil

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0799	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1039
Core ID #: 0799	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0799	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1042
Core ID #: 0799	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0799	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1050
Core ID #: 0799	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0799	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1057
Core ID #: 0799	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0799	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1325
Core ID #: 0800	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint. (ORISE)	Tc-99 by Liquid Scint. (ORISE)	[redacted]	Archive Sample (Check if YES)
Core #	Segment #	Sample #										
0800	AX	XA	1	X	X	X X X						
0800	AX	XG	1								X	X
0800	AX	XH	1							X X X	X X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1318
Core ID #: 0800	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]						Sample Preservation (Check if YES)
Core #	Segment #	Sample #															
0800	BX	XA	1	X	X												
0800	BX	XG	1												X		X
0800	BX	XH	1									X	X	X		X	X	X

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Field Sampler: Robert Posner / _____ **Date:** 8/10/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 1351
Core ID #: 0800	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0800	CX	XA	1	X	X													X
0800	CX	XG	1													X		X
0800	CX	XH	1									X	X	X		X	X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 339
Core ID #: 0800	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Duplicate Determination (Check if YES)
Core #	Segment #	Sample #																
0800	DX	XA	1	X	X													
0800	DX	XG	1												X			X
0800	DX	XH	1									X	X	X		X	X	X

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Field Sampler: Robert Posner / **Date:** 8/10/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 1345
Core ID #: 0800	Core Segment ID #: EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Preservation (Check if Yes)
Core #	Segment #	Sample #										
0800	EX	XA	1	X	X							
0800	EX	XG	1								X	X
0800	EX	XH	1							X X X	X X	X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011 **Time Collected** 0940
Core ID #: 0801	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample | Sill-Suite Core

Regulatory Confirmation Sample | Gamma Only Core

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
0801	AX	XA	1	X	X														

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 0943
Core ID #: 0801	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample ☐ All-Suite Rad ☐

Regulatory Confirmation Sample ☐ Gamma (only) ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
0801	BX	XA	1	X	X														

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 0945
Core ID #: 0801	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SWMU Sample: ☐ Full Suite Ra ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☐ Full ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Gamma Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)								Sample Processing Notes (Check if YES)
Core #	Segment #	Sample #																			
0801	CX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 0947
Core ID #: 0801	Core Segment ID #: DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample: Full-Suite Rad

Regulatory Confirmation Sample: Gamma Only, Full-Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #											
0801	DX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/10/2011	**Time Collected** 0947
Core ID #: 0801	Core Segment ID #: EX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Sample: [redacted] Full-Suite Rad [redacted]

Regulatory Confirmation S[redacted] Gamma Only [redacted] lk Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	[illegible] Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	Sample Preservation (Check if Yes)
Core #	Segment #	Sample #																			
0801	EX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/10/2011	Time Collected 0951
Core ID #: 0801	Core Segment ID #: FX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

SWMU Samples | Full-Suite Rad

Regulatory Confirmation Samples | Gamma Only | Full-Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U,Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sr-90	Sr-90, 6010C (Paragon)	Arsenic, Beryllium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc	Bundle Preservation (Check if YES)
Core #	Segment #	Sample #															
0801	FX	XA	1	X	X												

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1418
Core ID #: 0802	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0802	AX	XA	1	X	X							

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Field Sampler: Robert Posner/ (Print and Sign) **Date:** 8/9/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1421
Core ID #: 0802	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0802	BX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/9/2011
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1427
Core ID #: 0802	**Core Segment ID #:** CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0802	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/9/2011	**Time Collected** 1428
Core ID #: 0802	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0802	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/9/2011 Time Collected 1430
Core ID #: 0802	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0802	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1335
Core ID #: 0803	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0803	AX	XA	1	X	X	X	X	X												
0803	AX	XF	1						X											X

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011 Time Collected 1340
Core ID #: 0803	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0803	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/2/2011** **Time Collected** 1347
Core ID #: 0803	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0803	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1345
Core ID #: 0803	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0803	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 4/26/2011	**Time Collected** 11:22
Core ID #: 0804	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:**	Nuclear Fuel Services
	Project Name:	Subsurface Characterization and FSS
	Project Mgr:	Jeffrey Lively
	Project No:	9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0804	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1124
Core ID #: 0804	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0804	BX	XA	1	X	X							

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Field Sampler: Robert Posner I (Print and Sign) **Date:** 7/26/2011

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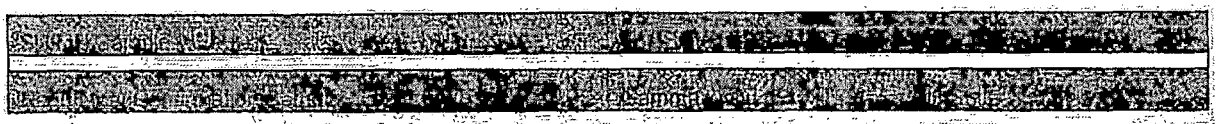
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1127
Core ID #: 0804	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235



Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0804	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1342	
Core ID #: 0805	**Core Segment ID #:** AX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0805	AX	XA	1	X	X							

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Field Sampler: Robert Posner (Print and Sign) **Date:** 8/8/11

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 1345
Core ID #: 0805	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Jeffrey Lively Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0805	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected**	1397
Core ID #: 0805	**Core Segment ID #:** CX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0805	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1349
Core ID #: 0805	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0805	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1554	
Core ID #: 0805	**Core Segment ID #:** EX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0805	EX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1307
Core ID #: 0806	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check If YES)
Core #	**Segment #**	**Sample #**										
0806	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 13:11
Core ID #: 0806	**Core Segment ID #:** B-X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0806	B	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1314
Core ID #: C806	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
C806	CX	XA	1	X	X	✓✓✓	✓					
C806	CX	XF	1				✓					✓
C806	CX	XQ	1				✓					✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/16 **Time Collected** 1318
Core ID #: 0801	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0801	DX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1400
Core ID #: 807	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0807	AX	XA	1	X	X	X X X						
0807	AX	XF	1			X						✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 1304	
Core ID #: 0807	Core Segment ID #: BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0807	BX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1307
Core ID #: 0807	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]		Sample Preservation (Check if YES)
Core #	Segment #	Sample #											
0807	CX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected** 1510	
Core ID #: 0807	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0807	DX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/8/11
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1314
Core ID #: 0805 0807 8/8/11	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	[illegible]	[illegible]	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0807	EX	XA	1	X	X																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11 **Time Collected** 1315
Core ID #: ~~8/8/11~~ 0807 RCP 8/8/11	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0807	FX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**Time Collected**	1319
Core ID #: 0807	**Core Segment ID #:** GX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0807	GX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 1325
Core ID #: 0807	Core Segment ID #: 6F HX RGP 8/8/11	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Jeffrey Lively
	Project No: 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0807	HX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1346
Core ID #: 0808	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Split to Sample

Regulator Confirmation Sample

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0808	AX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1351
Core ID #: 0808	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

SV/BU Sam

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)					Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0808	BX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1354
Core ID #: 0808	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0808	CX	XA	1	X	X							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 14:48
Core ID #: 0808	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]				Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]							Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0808	DX	XA	1	X	X																

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/26/2011

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 7/26/2011 **Time Collected** 1422
Core ID #: 0806	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[illegible]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0806	EX	XA	1	X	X							

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Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1358
Core ID #: 0809	Core Segment ID #: AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0809	AX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/2/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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751 Horizon Ct. Suite 104
Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1401
Core ID #: 0809	**Core Segment ID #:** BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0809	BX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/2/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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Grand Junction, CO 81506
Phone 970.243.2881
Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/2/2011	Time Collected 1164
Core ID #: 0809	Core Segment ID #: CX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE); Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #										
0809	BX	XA	1	X	X							

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Field Sampler: Chris Putnam / _____ **Date:** 8/2/2011
(Print and Sign)

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Fax 970.256.7356

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/2/2011	**Time Collected** 1410
Core ID #: 0809	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Jeffrey Lively **Project No:** 9120071235

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**										
0809	DX	XA	1	X	X							

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Field Sampler: Chris Putnam (Print and Sign) **Date:** 8/2/2011

NFS File Classification: DCM-23-05-02

Appendix E.3

Field Sample Data Sheets

Survey Unit 7

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0750
Core ID #: 7001	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	AX	XA	1	✓	✓	✓	✓	✓													
7001	AX	XF	1						✓												✓
7001	AX	DUP	1	✓	✓	✓	✓	✓													
7001	AX	XQ	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0755
Core ID #: 7001	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846, 6010C (Paragon): Arsenic, Beryllium	SW846, 8270C (Paragon): Semi-Volatile Organics	SW846, 8260B (Paragon): VOCs by Terra Core	SW846, 7196A (Paragon): Hexavalent Chromium	SW846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	BX	XA	1	✓	✓																

Knowingly or willfully falsifying or concealing a material fact on this form, or making false, fictitious or fraudulent statements or representations herein could constitute a felony punishable under Federal Statutes

Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0805
Core ID #: 7001	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Extra Cons.	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0910
Core ID #: 7001	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0815
Core ID #: 7001	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon): VOCs by Terra Core	SW 846 7196A (Paragon): Hexavent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	EX	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0820
Core ID #: 7001	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/04/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0825
Core ID #: 7001	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0830
Core ID #: 7001	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 8010C (Paragon): Aerobic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7001	HX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

NFS File Classification: DCM-23-05-02

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Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0825
Core ID #: 7002	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tarp Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/02/13
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NFS File Classification: DCM-23-05-02

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Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0835
Core ID #: 7002	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tera Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/02/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0843
Core ID #: 7002	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7002	CX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/02/13

NFS File Classification: DCM-23-05-02

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Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0848
Core ID #: 7002	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/02/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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Pittsburgh, PA 15106
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0905
Core ID #: 7002	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ | Gamma Only: ☑ | Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/02/13
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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 0912
Core ID #: 7002	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 By Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by TerraCore	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/02/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** NO RECOVERY
Core ID #: 7002	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	GX	NO RECOVERY																			

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/02/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected**
Core ID #: 7002	**Core Segment ID #:** HX NO RECOVERY

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	HX	NO RECOVERY																			

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Field Sampler: Alejandro Lopez / Alejandro Lopez (Print and Sign) **Date:** 10/02/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** NO RECOVERY
Core ID #: 7002	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-24 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	IX	NO RECOVERY																			

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Field Sampler: Alejandro Lopez / [signature] **Date:** 10/02/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/02/13 **Time Collected** 1208
Core ID #: 7002	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7002	JX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/02/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0945
Core ID #: 7003	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0952
Core ID #: 7003	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0955
Core ID #: 7003	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☑ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon) Arsenic, Beryllium	SW 846: 8270C (Paragon) Semi-Volatile Organics	SW 846: 8260B (Paragon) VOCs by Terra Core	SW 846: 7196A (Paragon) Hexavalent Chromium	SW 846: 7471A (Paragon) Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7003	CX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/09/13 Time Collected 1000
Core ID #: 7003	Core Segment ID #: 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 1005
Core ID #: 7003	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	EX	XA			✓	✓															

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 1008
Core ID #: 7003	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 1015
Core ID #: 7003	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7003	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0905
Core ID #: 7004	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846, 6010C (Paragon): Arsenic, Beryllium	SW846, 8270C (Paragon): Semi-Volatile Organics	SW846, 8260B (Paragon): VOCs by Terra Core	SW846, 7196A (Paragon): Hexavalent Chromium	SW846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/04/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0910
Core ID #: 7004	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/04/13 Time Collected 0920
Core ID #: 7004	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Tetra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7474 (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	CX	XA	1	✓	✓	✓	✓	✓													
7004	CX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0925
Core ID #: 7004	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☑ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	0X	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0930
Core ID #: 7004	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon) Arsenic, Beryllium	SW 846, 8270C (Paragon) Semi-Volatile Organics	SW 846, 8260B (Paragon) VOCs by Terra Core	SW 846, 7196A (Paragon) Hexavalent Chromium	SW 846, 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 0935
Core ID #: 7004	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	FX	XA																			

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1432
Core ID #: 7005	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and ESS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	AX	XA	1	✓	✓	✓	✓	✓													
7005	AX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/1/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1445
Core ID #: 7005	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7005	BX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

AL 10/1/13

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1445 1452
Core ID #: 7005	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/01/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1500
Core ID #: 7005	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Target Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	0X	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1507
Core ID #: 7005	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☑ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Ale Lopez (Print and Sign) **Date:** 10/01/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** NO RECOVERY
Core ID #: 7005	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	FX	NO RECOVERY																			

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1521
Core ID #: 7005	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1615
Core ID #: 7005	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	HX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/01/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1621
Core ID #: 7005	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7005	IX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1215
Core ID #: 7006	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1220
Core ID #: 7006	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☑ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1225
Core ID #: 7006	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241(b) Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
Pittsburgh, PA 15106
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/04/13 Time Collected 1230
Core ID #: 7006	Core Segment ID #: 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 8010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1235
Core ID #: 7006	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tekta Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
(Print and Sign)

NFS File Classification: OCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/04/13 Time Collected 1345
Core ID #: 7006	Core Segment ID #: FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/04/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1250
Core ID #: 7006	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/04/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1300
Core ID #: 7006	**Core Segment ID #:** 11X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by Tetra Core	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	11X	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1305
Core ID #: 7006	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	RU-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tera Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7006	IX	XA	1	✓	✓	✓	✓	✓													
7006	IX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 0820
Core ID #: 7007	Core Segment ID #: AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS):	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Ra-226 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846; 6010C (Paragon): Arsenic, Beryllium	SW-846; 8270C (Paragon): Semi-Volatile Organics	SW-846; 8260B (Paragon): VOCs pyrite Core	SW-846; 7196A (Paragon): Hexavalent Chromium	SW-846; 7470A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez (Print and Sign) Alejandro Lopez **Date:** 10/07/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0825
Core ID #: 7007	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0830
Core ID #: 7007	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	ICSs: Anions - 7254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0835
Core ID #: 7007	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	0X	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0845
Core ID #: 7007	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	EX	XA	1	✓	✓	✓	✓	✓													
7007	EX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0850
Core ID #: 7007	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7007	FX	XA	1	✓	✓																	

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0900
Core ID #: 7007	**Core Segment ID #:** 6X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBS, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon) Arsenic, Beryllium	SW 846, 8270C (Paragon) Semi-Volatile Organics	SW 846, 8260B (Paragon) VOCs by Terra Core	SW 846, 7196A (Paragon) Hexavalent Chromium	SW 846, 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	6X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0905
Core ID #: 7007	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Pb-210, Arodor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium,	SW846: 6270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7007	HX	XA	1		✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/07/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0910
Core ID #: 7007	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Tera Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	IX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/07/13
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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 0915
Core ID #: 7007	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint.(Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7007	JX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/07/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1154
Core ID #: 7008	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by Terra Core	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1200
Core ID #: 7008	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic; Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	BX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1205
Core ID #: 7008	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241(By Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	CX	XA	1	✓	✓	✓	✓	✓													
7008	CX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1318
Core ID #: 7008	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Ale Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1226
Core ID #: 7008	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1231
Core ID #: 7008	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846 6010C (Paragon) Arsenic, Beryllium	SW 846 8270C (Paragon) Semi-Volatile Organics	SW 846 8260B (Paragon) VOCs by Terra Core	SW 846 7196A (Paragon) Hexavalent Chromium	SW 846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1240
Core ID #: 7008	**Core Segment ID #:** 6X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	6X	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1243
Core ID #: 7008	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	HX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1246
Core ID #: 7008	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW846, 6010C (Paragon): Arsenic, Beryllium	SW846, 8270C (Paragon): Semi-Volatile Organics	SW846, 8260B (Paragon): VOCs by Terra Core	SW846, 7196A (Paragon): Hexavalent Chromium	SW846, 7473A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7008	IX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1015
Core ID #: 7009	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	AX	XA	1	✓	✓	✓	✓	✓													
7009	AX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1027
Core ID #: 7009	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon) Arsenic, Beryllium	SW-846: 8270C (Paragon) Semi-Volatile Organics	SW-846: 8260B (Paragon) VOCs by Terra Core	SW-846: 7196A (Paragon) Hexavalent Chromium	SW-846: 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	BX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1033
Core ID #: 7009	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/07/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1035
Core ID #: 7009	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Barium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez I (Print and Sign) **Date:** 10/07/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1213
Core ID #: 7009	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon):Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by TerraCore	SW846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez I (Print and Sign) **Date:** 10/07/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1215
Core ID #: 7009	Core Segment ID #: FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7004	FX	XA	1	✓	✓																

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1220
Core ID #: 7009	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1225
Core ID #: 7009	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	HX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1230
Core ID #: 7009	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon) Arsenic, Beryllium	SW-846: 8270C (Paragon) Semi-Volatile Organics	SW-846: 8260B (Paragon) VOCs by Terra Core	SW-846: 7196A (Paragon) Hexavalent Chromium	SW-846: 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	IX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** NO RECOVERY
Core ID #: 7009	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7009	JX	No RECOVERY																			

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1118
Core ID #: 7010	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ | Gamma Only: ☑ | Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tera Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7010	AX	XA	1	✓	✓																
7010	AX	XG	1															✓			✓
7010	AX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1122
Core ID #: 7010	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs, by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7010	BX	XA	1	✓	✓																
7010	BX	XG	1															✓			✓
7010	BX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1130
Core ID #: 7010	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7010	CX	XA	1	✓	✓												✓				
7010	CX	XG	1											✓	✓	✓		✓	✓		✓
7010	CX	XH	1																		

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1140
Core ID #: 7010	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ | Gamma Only: ☑ | Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Cores	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7010	DX	XA	1	✓	✓																
7010	DX	XG	1														✓				✓
7010	DX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1145
Core ID #: 7010	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7010	EX	XA	1	✓	✓																
7010	EX	XG	1														✓				✓
7010	EX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1302
Core ID #: 7011	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1307
Core ID #: 7011	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	BX	XA	1		✓	✓															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1315
Core ID #: 7011	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	CX	XA	2	✓	✓	✓	✓	✓													
7011	CX	XF	1						✓												✓
7011	CX	XQ	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1320
Core ID #: 7011	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1325
Core ID #: 7011	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1332
Core ID #: 7011	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7011	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 0930
Core ID #: 7012	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☑ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270D (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Tare Core	SW8467196A (Paragon): Hexavalent Chromium	SW846 7470A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/01/13	Time Collected 0940
Core ID #: 7012	Core Segment ID #: BX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez Date: 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 0942
Core ID #: 7012	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by LiquidScint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Tare core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13	**Time Collected** 0935
Core ID #: 7012	**Core Segment ID #:** DX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7012	DX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez (Print and Sign) Alejandro Lopez **Date:** 10/01/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1000
Core ID #: 7012	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1012
Core ID #: 7012	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	FX	XA	1	✓	✓	✓	✓	✓													
7012	FX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1017
Core ID #: 7012	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/01/13 **Time Collected** 1030
Core ID #: 7012	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon):Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7012	HX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0800
Core ID #: ~~7032~~ 7013 AL 9/30/13	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7032~~ 7013 AL 9/30/13	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0810
Core ID #: ~~7032~~ 7013 AL 9/30/13	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7032~~ 7013 AL 9/30/13	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0820
Core ID #: ~~7022~~ 7013 AL 9/30/13	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core # AL 9/30/13 ~~7022~~ 7013	Segment #	Sample #																			
~~7022~~	CX	XA	1	✓	✓	✓	✓	✓													
7013	CX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / AL Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0830
Core ID #: ~~7022~~ 7013 AL 9/30/13	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7022~~ 7013 AL 9/30/13	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/30/13 Time Collected 0835
Core ID #: ~~7032~~ 7013 AL 9/30/13	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Alejandro Lopez Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7032~~ 7013 AL 9/30/13	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/30/13

NFS File Classification: DCM-23-06-02

AMEC Environment & Infrastructure
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Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0845
Core ID #: ~~7022~~ 7013	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by TerraCore	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7022~~ 7013 AL 9/30/13	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez (Print and Sign) **Date:** 9/30/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0905
Core ID #: ~~7022~~ 7013 AL 9/30/13	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by Terra Core	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7022~~ 7013 AL 9/30/13	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez I. (Print and Sign) **Date:** 9/30/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 0910
Core ID #: ~~7092~~ 7013 AL 9/30/13	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
~~7092~~ 7013 AL 9/30/13	HX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/30/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13	**Time Collected** 1347
Core ID #: 7014	**Core Segment ID #:** AX	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon) Arsenic, Beryllium	SW846: 8270C (Paragon) Semi-Volatile Organics	SW846: 8260B (Paragon) VOCs by Terra Core	SW846: 7196A (Paragon) Hexavalent Chromium	SW846: 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/9/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1352
Core ID #: 7014	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Alejandro Lopez Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez Date: 10/9/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1356
Core ID #: 7014	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Alejandro Lopez Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) Date: 10/9/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1359
Core ID #: 7014	Core Segment ID #: NX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	NX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez Date: 10/07/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1403
Core ID #: 7014	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services Project Name: Subsurface Characterization and FSS Project Mgr: Alejandro Lopez Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1406
Core ID #: 7014	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by Terra Core	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7014	FX	XA	1	✓	✓																

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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1518
Core ID #: 7015	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon): Am, Pu, U, Th	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7015	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/07/13 Time Collected 1522
Core ID #: 7015	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Tetra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7015	BX	XA	1	✓	✓	✓	✓	✓													
7015	BX	XF	1						✓												

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1527
Core ID #: 7015	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☒ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1252 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7015	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1537
Core ID #: 7015	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7015	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1541
Core ID #: 7015	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7015	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1355
Core ID #: 7016	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	AX	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1400
Core ID #: 7016	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241/76y Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	BX	XA	1	✓	✓	✓	✓	✓													
7016	BX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/08/13 Time Collected 1406
Core ID #: 7016	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) Date: 10/09/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1410
Core ID #: 7016	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by TerraCore	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1421
Core ID #: 7016	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	EX	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / [signature] **Date:** 10/08/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1425
Core ID #: 7016	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	FX	X4	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/08/13 Time Collected 1432
Core ID #: 7016	Core Segment ID #: GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 3010C (Paragon) Arsenic, Beryllium	SW-846, 8270C (Paragon) Semi-Volatile Organics	SW-846, 8260B (Paragon) VOCs by Terra Core	SW-846, 7196A (Paragon) Hexavalent Chromium	SW-846, 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7016	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/09/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1415
Core ID #: 7017	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon) Arsenic, Beryllium	SW 846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon) VOCs by Terra Core	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	AX	XA	1	✓	✓	✓	✓	✓													
7017	AX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/26/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1425
Core ID #: 7017	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez (Print and Sign) Alex Lopez **Date:** 9/26/13

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FIELD SAMPLE DATA SHEET

N 9/26/13

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1435 1430
Core ID #: 7017	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1440
Core ID #: 7017	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beylium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Entire Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1445
Core ID #: 7017	**Core Segment ID #:** ~~DX~~ EX AL 9/26/13

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1500
Core ID #: 7017	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7017	FX	XA	1	✓	✓																

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NFS File Classification: DCM-23-06-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1640
Core ID #: 7018	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1650
Core ID #: 7018	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by TerraCore	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/26/13 Time Collected 1655
Core ID #: 7018	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/26/13

NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1705
Core ID #: 7018	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/26/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1715
Core ID #: 7018	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW 846: 6010C (Paragon) Arsenic, Beryllium	SW 846: 8270C (Paragon) Semi-Volatile Organics	SW 846: 8260B (Paragon) VOCs by Terra Core	SW 846: 7196A (Paragon) Hexavalent Chromium	SW 846: 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/26/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1720
Core ID #: 7018	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7018	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/26/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1032
Core ID #: 7019	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1045
Core ID #: 7019	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/27/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/27/13 Time Collected 1050
Core ID #: 7019	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	Client: Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U,Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1100
Core ID #: 7019	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	DX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1105
Core ID #: 7019	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/27/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** No RECOVERY
Core ID #: 7019	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	FX	No Recovery																			

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1120
Core ID #: 7019	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez I (Print and Sign) Alejandro Lopez **Date:** 9/27/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1135
Core ID #: 7019	**Core Segment ID #:** HX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	HX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/27/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1140
Core ID #: 7019	**Core Segment ID #:** IX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core II	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	IX	XA	1	✓	✓	✓	✓	✓													
7019	IX	XF	1						✓												✓
7019	IX	XQ	1						✓												✓
7019	IX	OUP	1	✓	✓	✓	✓	✓													

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/27/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/27/13 **Time Collected** 1155
Core ID #: 7019	**Core Segment ID #:** JX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7019	JX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/27/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0928
Core ID #: 7020	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Tetra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	AX	XA	1	✓	✓																✓
7020	AX	X6	1														✓				✓
7020	AX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/08/13 Time Collected 0935
Core ID #: 7020	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	BX	XA	1	✓	✓																
7020	BX	XG	1														✓				✓
7020	BX	XH	1											✓	✓	✓		✓	✓		✓
MS-7020	BX	XG	1														✓				✓
MS-7020	BX	XH	1											✓	✓	✓		✓	✓		✓
MSD-7020	BX	XG	1														✓				✓
MSD-7020	BX	XH	1											✓	✓	✓		✓	✓		✓
FD-021	BX	XG	1														✓				✓
FD-021	BX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/09/13
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AMEC Environment & Infrastructure
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0954
Core ID #: 7020	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	CX	XA	1	✓	✓																
7020	CX	XG	1															✓			✓
7020	CX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1000
Core ID #: 7020	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	DX	XA	1	✓	✓	✓	✓	✓													
7020	DX	XG	1															✓			✓
7020	DX	XH	1											✓	✓	✓		✓	✓		✓
7020	DX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1010
Core ID #: 7020	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	EX	XA	1	✓	✓																✓
7020	EX	XG	1															✓			✓
7020	EX	XH	1											✓	✓	✓	✓	✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1015
Core ID #: 7020	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ | Gamma Only: ☑ | Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	FX	XA	1	✓	✓																
7020	FX	XG	1															✓			✓
7020	FX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 1025
Core ID #: 7020	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7020	GX	XA	1	✓	✓																
7020	GX	XG	1															✓			✓
7020	GX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1035
Core ID #: 7021	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☒

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic; Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Encore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	AX	XA	1	✓	✓	✓	✓	✓													
7021	AX	XF	1						✓												✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/30/13 Time Collected 1050
Core ID #: 7021	Core Segment ID #: BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	BX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1053
Core ID #: 7021	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1102
Core ID #: 7021	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	0X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/30/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1111
Core ID #: 7021	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon)-Arsenic, Beryllium	SW 846: 8270C (Paragon)- Semi-Volatile Organics	SW 846: 8260B (Paragon)- VOCs by Terra Core	SW 846: 7196A (Paragon)- Hexavalent Chromium	SW 846: 7471A (Paragon)- Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1115
Core ID #: 7021	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): Vocs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1130
Core ID #: 7021	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	GRs, Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7021	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1410
Core ID #: 7022	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs by Terra Core	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7022	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1420
Core ID #: 7022	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample ☐ | Full-Suite Radiological: ☐

Regulatory Confirmation Sample ☒ | Gamma Only: ☒ | Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7022	BX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / (Print and Sign) Alejandro Lopez **Date:** 9/30/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1425
Core ID #: 7022	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7022	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1430
Core ID #: 7022	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7022	0X	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1443
Core ID #: 7022	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint. (ORISE)	Tc-99 by Liquid Scint. (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW846: 8260B (Paragon): Volcsby Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7022	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/30/13 Time Collected 1450
Core ID #: 7022	Core Segment ID #: FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Ra-226 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tenax Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7470A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7022	FX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **Time Collected** 1520
Core ID #: 7022	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Tare Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7022	GX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0800
Core ID #: 7023	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	To-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / [signature] 7023 **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0810
Core ID #: 7023	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846; 6010C (Paragon): Arsenic, Beryllium	SW846; 8270C (Paragon): Semi-Volatile Organics	SW846; 8260B (Paragon): VOCs by Terra Core	SW846; 7196A (Paragon): Hexavalent Chromium	SW846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/09/13 Time Collected 0815
Core ID #: 7023	Core Segment ID #: CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/09/13 Time Collected 0820
Core ID #: 7023	Core Segment ID #: 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	0X	XA	1	✓	✓	✓	✓	✓													
7023	0X	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/09/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 10/09/13 Time Collected 0825
Core ID #: 7023	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	EX	XA	1	✓	✓																

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Survey Unit ID#: 7	**Date Collected** 10/09/13 **Time Collected** 0835
Core ID #: 7023	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs (Aroclor 1254 (Paragon))	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs in Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7023	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1115
Core ID #: 7024	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1124
Core ID #: 7024	**Core Segment ID #:** RX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	RX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1132
Core ID #: 7024	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1140
Core ID #: 7024	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1145
Core ID #: 7024	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1158
Core ID #: 7024	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7024	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 0852
Core ID #: 7025	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7025	AX	XA	1	✓	✓	✓	✓	✓													
7025	AX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) Date: 9/26/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 0907
Core ID #: 7025	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core II	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7025	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 0912
Core ID #: 7025	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7025	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 0920
Core ID #: 7025	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tetra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7025	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/26/13 Time Collected 1010
Core ID #: 7025	Core Segment ID #: EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7025	EX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/26/13 **Time Collected** 1012
Core ID #: 7025	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 By Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7025	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/26/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1500
Core ID #: 7026	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7026	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/25/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1507
Core ID #: 7026	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7026	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/25/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1512
Core ID #: 7026	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7026	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1522
Core ID #: 7026	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7026	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/25/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1540
Core ID #: 7026	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7026	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/25/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1312
Core ID #: 7027	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1234 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7027	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1319
Core ID #: 7027	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7027	BX	X4	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1327
Core ID #: 7027	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7027	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1335
Core ID #: 7027	**Core Segment ID #:** 0X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
7027	0X	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1350
Core ID #: 7027	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7027	EX	XA	1	✓	✓	✓	✓	✓													
7027	EX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1400
Core ID #: 7027	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW846: 7196A (Paragon): Hexavalent Chromium	SW846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7027	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 0910
Core ID #: 7028	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	AX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	Date Collected 9/25/13	Time Collected 0920	
Core ID #: 7028	Core Segment ID #: BX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 0927
Core ID #: 7028	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Tetra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	CX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13	**Time Collected** 0932
Core ID #: 7028	**Core Segment ID #:** 0X	

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☑

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	0X	XA	1	✓	✓	✓	✓	✓													
7028	0X	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 0945
Core ID #: 7028	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846; 6010C (Paragon): Arsenic, Beryllium	SW-846; 8270C (Paragon): Semi-Volatile Organics	SW-846; 8260B (Paragon): VOCs by Tarra Core	SW-846; 7196A (Paragon): Hexavalent Chromium	SW-846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/25/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/24/13 9/25/13 **Time Collected** NA
Core ID #: 7028	**Core Segment ID #:** FX NO RECOVERY

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	FX	No Recovery																			

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/25/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **Time Collected** 1010
Core ID #: 7028	**Core Segment ID #:** GX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7028	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/25/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 0910
Core ID #: 7029	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029	AX	XA	1	✓	✓	✓	✓	✓													
7029	AX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 0918
Core ID #: 7029	**Core Segment ID #:** 6X

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Barium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029	6X	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 0922
Core ID #: 7029	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13	**Time Collected** 0930	
Core ID #: 7029	**Core Segment ID #:** DX		

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint.(ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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NFS File Classification: DCM-23-06-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 0945
Core ID #: 7029	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029-EX AL 9/24/13	EX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 0950
Core ID #: 7029	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Terra Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7029	FX	XA	1	✓	✓																

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0747
Core ID #: 7030	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	AX	XA	1	✓	✓																
7030	AX	XH	1											✓	✓	✓		✓	✓		✓
7030	AX	XG	1														✓				✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0800
Core ID #: 7030	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	BX	XA	1	✓	✓																
7030	BX	XG	1															✓			✓
7030	BX	XH	1											✓	✓	✓		✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0810
Core ID #: 7030	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon) Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	CX	XA	1	✓	✓																
7030	CX	XG	1															✓			✓
7030	CX	XH	1											✓	✓	✓	✓	✓	✓		✓

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0817
Core ID #: 7030	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270c (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	DX	XA	1	✓	✓																
7030	DX	XG	1														✓				✓
7030	DX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0825
Core ID #: 7030	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW846 6010C (Paragon) Arsenic, Beryllium	SW846 8270C (Paragon) Semi-Volatile Organics	SW-846, 8260B (Paragon) VOCs by Terra Core	SW846 7196A (Paragon) Hexavalent Chromium	SW846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	EX	XA	1	✓	✓																
7030	EX	XG	1														✓				✓
7030	EX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **Time Collected** 0835
Core ID #: 7030	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☑ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7030	FX	XA	1	✓	✓																
7030	FX	XG	1														✓				✓
7030	FX	XH	1											✓	✓	✓		✓	✓		✓

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Field Sampler: Alejandro Lopez / [signature] **Date:** 10/09/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1124
Core ID #: 7031	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7031	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/24/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1128
Core ID #: 7031	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7031	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1132
Core ID #: 7031	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by TerraCore	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7031	CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1142
Core ID #: 7031	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon)-Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0731	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1152
Core ID #: 7031	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7031	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1205
Core ID #: 7031	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon): VOCs by Terra Core	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7031	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
(Print and Sign)

NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1550
Core ID #: 7032	**Core Segment ID #:** AX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	AX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1552
Core ID #: 7032	**Core Segment ID #:** BX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☑

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	AL 9/24/13 AX BX	XA	1	✓	✓	✓	✓	✓													
7032	BX	XF	1						✓												✓

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 9/24/13

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1604
Core ID #: 7032	**Core Segment ID #:** CX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	AL AX 9/24/13 CX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1610
Core ID #: 7032	**Core Segment ID #:** DX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services
	Project Name: Subsurface Characterization and FSS
	Project Mgr: Alejandro Lopez
	Project No: 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	DX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/24/13
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1624
Core ID #: 7032	**Core Segment ID #:** EX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	EX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alba Lopez (Print and Sign) **Date:** 9/24/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 09/24/13 **Time Collected** 1630
Core ID #: 7032	**Core Segment ID #:** FX

Site: NFS North Site 1205 Banner Hill Road Erwin, TN 37650	**Client:** Nuclear Fuel Services **Project Name:** Subsurface Characterization and FSS **Project Mgr:** Alejandro Lopez **Project No:** 9120071235

SWMU Sample: ☐ Full-Suite Radiological: ☐

Regulatory Confirmation Sample: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am-Pu-U-Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
7032	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 9/24/13
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NFS File Classification: DCM-23-05-02