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** 6/16/20[illegible] **Time Collected** 1[illegible]00
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	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid 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 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	0925
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 10:27	
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** 1053	
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 Terra Core	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 #:** 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 Tetra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
051	6X	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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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 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 / (Print and Sign) **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 Sampler: Robert Posner / (Print and Sign) **Date:** 6/24/2011

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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 Terra 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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Grand Junction, CO 81506
Phone 970.243.2861
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 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**	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 ☐ Tri-

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 ☐ Fill Site ☐
Regulatory Confirmation Sample ☐ Gamma Hit ☐ Fill Soil ☐

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)	[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	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** **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 ☐ Other ☐

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]	[illegible]	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 ☐ #:

Regulatory Confirmation Sample ☐ Gamma Only ☐ Split ☐

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	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 ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Soil 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 #**								
054	HX	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** 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)	[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 #																			
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 ☐ Field Blank ☐
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	JX	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** 7/20/2011 **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)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	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 Sampler: Robert Posner / (Print and Sign) **Date:** 7/20/2011

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Fax 970.256.7356

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)	[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	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 ☐ Other ☐

Regulatory Confirmatory Sample ☐ Gamma Only ☐ Split ☐

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	DX	XA	1	✓	✓																	

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/11 **Time Collected** 810
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 Sample ☐

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	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 ☐ Hill Soils ☐

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 #																
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 Blank ☐

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 #										
065	GX	XA	1	✓	✓							

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/20/2011 **Time Collected**	558
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 ☐ Field Blank ☐
Regulatory Confirmation Sample ☐ Sample Dup ☐ Equipment Blank ☐

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 #																		
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 ☐ Regulatory Confirmation Sampling ☐ Gamma Drill ☐ Fill 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 #																		
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)	[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	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 ☐

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 #										
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 Li[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

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)	[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	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

[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	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

[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	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~~ 1X 2X 3X 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~~ 1X 2X 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** 0915
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 ID

Sample Depth

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 #																		
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

SWMU Sample Log

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)																			Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
059	BX	XA	1	✓	✓																			
059																								

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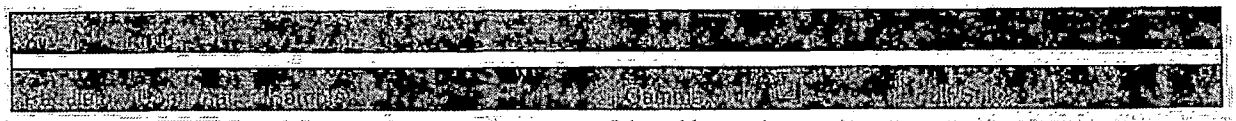
FIELD SAMPLE DATA SHEET

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

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

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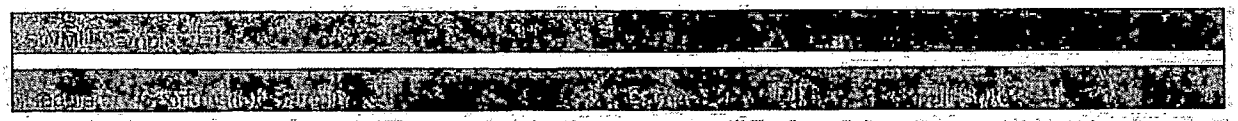
FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/23/11	**Time Collected** 1652	
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	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** 6/25/11	**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

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]	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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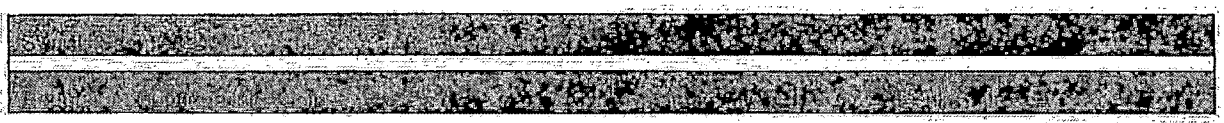
FIELD SAMPLE DATA SHEET

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 ☐ Grab ☐ Composite ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (GEL)	Pu-241 by Liquid Scint (GEL)	Sr-90 (GEL)	Tc-99 (GEL)	Gamma Spectroscopy (STL)	Pu-241 by Liquid Scint (STL)	Sr-90 (STL)	Tc-99 (STL)	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

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

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 Sampler: Robert Posner / (Print and Sign) **Date:** 6/30/11

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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

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** 11:46	
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

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

SU/MU 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)	[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 #**										
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 ☐ Replicate/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 #										
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)					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 #																		
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 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 #																
063	CX	XA	1	✓	✓													

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 7/21/2011	**Time Collected** 1107
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 ☐

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 #**										
063	DX	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** 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

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**
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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NFS File Classification: DCM-23-05-02

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Fax 970.256.7356

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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	Date Collected 6/28/11	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

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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]

Reason for 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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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**	10:56
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]

Reg Duplicate Sample ID: [illegible] Reference ID: [illegible] Field Split ID: [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] (Print and Sign) **Date:** 6/24/11

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** 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 Sampler: Robert Posner / _____ **Date:** 6/24/11
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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 ☐ 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	BX	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** 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

Swipe Sample ☐ Field Blank ☐ Equipment Rinsate ☐ Trip Blank ☐ Duplicate ☐

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 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**	14:45
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 ☐

Regulator Confirmation Sample ☐ Geo material ☐ Rock ☐

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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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**	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 Information Sample | Sample Type | 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	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 ☐

Exposure 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 7 Sample ☐

Regulatory Confirmatory Sample ☐ Survey Unit 4 ☐

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	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 Confirmation 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 3 and 4A

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	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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NFS File Classification: DCM-23-05-02

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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)																	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
066	BX	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** 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 ☐

Radium Confirmation Sample ☐ Isotopic ☐ 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

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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 #: 066	**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 ☐ Site ☐

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

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/27/11 **Time Collected** 16:58
Core ID #: C66	**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 ☐

Regulator Confirmation Sample ☐ Gamma Only ☐ Half Slab ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
C66	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 ☐ Background ☐ QA Split ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																			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 ☐ Soil Boring ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Rail Survey ☐

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 ☐ Non-Rad ☐ Mineral ☐

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** 6?1
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)	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 ☐ Drill 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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NFS File Classification: DCM-23-05-02

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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 ☐ Laundry ☐ Fall Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Cs-137	Co-60	Eu-152	Eu-154	Ra-226	Th-232	Pb-212	Pb-214	Bi-214	Ac-228	Th-228	Th-230	Th-234	Pa-234m	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 ☐ Soil/Sediment ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Only	Full Suite	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, Pu, U, Th (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Gamma Spectroscopy (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: 7473 (Paragon): Mercury		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 ☐

Regulatory Confirmation Sample ☐ Grab ☐ Composite ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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 #																			
068	BX	XA	1	✓	✓																

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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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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**	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 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 Sample: ☑ Full-Suite Radiological: ☐

Regulatory Compliance 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: Full-Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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	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 ☐ Comparison 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 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**	1:04
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: ☐

Replicate collected: ☐ Archive Sample: ☐ 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 #																		
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	✓	✓	✓	✓	✓	✓	✓	ch-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)											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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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: ☐

Regulatory Compliance Sample ☐ | Short Lived ☐ | Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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 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: ☐

Radiological Quality Control Sample ☐ Cleaning Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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 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 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	✓						X	X	X		X	X		X
070	AX	XG	1											X				X
070	AX	XH	1															

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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 ☒ Other Solid Material ☐

Regulatory Confirmation Sample ☐ Gamma Only ☐ Fill Soils ☐

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 / (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** 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 [X]

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

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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)	Sr-90 by Liquid Scint (HRGS)	FCSS: Anodic Pu-241 (Paragon)	SW-846 6010C (Paragon): As, Cr, Be, Mn	SW-846 6010C (Paragon): Sample Ident. Cr and Ni	SW-846 6020B (Paragon): Sb, Cs, Eu, Tl, U, Other	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471B (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
071	4X	XA	1	✓	✓																	

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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)	Pu-241 by Gamma Spec (ORISE)	Sr-90 by Rad Chem (ORISE)	Tc-99 by Rad Chem (ORISE)	Pu-241 by Rad Chem (ORISE)	Isotopic Am, Pu, U, Th (ORISE)	Sr-90 by Rad Chem (Paragon)	Isotopic Neptunium (Paragon)	Sr-90 by Rad Chem (Paragon)	Volatile Organics SW846-8260B (Paragon)	Volatile Organics SW846-8260B (Paragon) VOC-Styrene Only	Semivolatile Organics SW846-8270C (Paragon)	Isotopic Uranium (Paragon)	Metals SW846-6010B (Paragon)	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																						
071	BX	XA	1	✓	✓																			

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Field Sampler: Robert Posner I (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** 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 (GEL)	Gamma Spectroscopy (KPRC)	Sr-90 by Liquid Scint (KPRC)	Sr-90 by Liquid Scint (GEL)	Pu-241 by Liquid Scint (GEL)	Isotopic Uranium (GEL)	Isotopic Thorium (GEL)	Isotopic Plutonium (GEL)	Isotopic Neptunium (GEL)	Isotopic Americium (GEL)	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 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: ☐ Calibration Only: ☐ Other: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (GRS)	Pu-241 by Liquid Scint (GRS)	Sr-90 by Liquid Scint (GRS)	Tc-99 by Liquid Scint (GRS)	Isotopic Uranium (GRS)	Radium-226 (Paragon)	Radium-228 (Paragon)	Thorium-230 (Paragon)	Thorium-232 (Paragon)	Uranium-234 (Paragon)	Uranium-235 (Paragon)	Uranium-238 (Paragon)	Sr-90 by 905.0 (Paragon)	Sr-90 by 7500 (Paragon)	Sr-90 by 7500 (Paragon)	Technetium-99 (Paragon)	Chromium (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

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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)	RCBs, ANSI-126 (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 (CVAA)		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 1018
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 (NFS)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
071	FX	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** 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)	ECS	SW-846 6010B (Paragon): Arsenic, Barium	SW-846 6010B (Paragon): Beryllium, Chromium	SW-846 6010B (Paragon): Lead, Selenium, Silver	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]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																	
072	AX	XA	1	✓	✓	✓	✓	✓											
072	AX	XF	1						✓										✓

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Field Sampler: Robert Posner / _____ **Date:** 6/28/11
(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** 6/28/11 **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

Swipe Sample

Radiological Grab 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

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 #**										
072	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** 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 ☐ | 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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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

Classification Sample

Sample Type

Split Spoon

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)															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)	[redacted]	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 Sampler: Robert Posner / (Print and Sign) **Date:** 6/24/11

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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, 4 aroclors (Paragon)	SW-846 6010B (ICP) (Paragon) Sem. volatile Ordnance	SW-846 8270C (Paragon) Sem. Volatile Ordnance	SW-846 8260B (Paragon) VOCs by trace	SW-846 7471A (Paragon) Mercury	SW-846 6010B (Paragon) Barium, Chromium	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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NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

RCP 6/17/11

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 8100 PAH (Paragon)	SW846 8270C (Paragon)	SW846 8260B (Paragon)	SW846 8082 PCB (Paragon)	SW846 7196A (Paragon)	SW846 7471A (Paragon)		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 LSC (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: 8082 (Paragon)	SW-846 8260B (Paragon): VOCs in Soil	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs in Trans Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 6010C (Paragon): Metals		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	Pu-241 by Liquid Scint (ORISE)	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	ICP-AES (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium,	SW846 6010C (Paragon): Semi-Volatile Organics	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by Term. GC	SW846 7196A (Paragon): Hexavalent Chromium	SW846 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	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclors (8082) (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs	SW-846 X10A (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 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)	GEA: Antimony-125 (Paragon)	SW846: 6010C (Paragon): Arsenic, Barium	SW-846: 8270C (Paragon): Semivolatile Organics	SW-846: 8260B (Paragon): VOCs in Core Sample	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 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 Appendix IV (Paragon)	SW846 - 6010C (Paragon): Arsenic, Beryllium	SW846 - 8270C (Paragon): Semi-Volatile Organics	SW846 - 8260B (Paragon): VOCs by Purge & Trap	SW846 - 7196A (Paragon): Hexavalent Chromium	SW846 - 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
074	GX	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** 6/15/11 **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): As, Be, Cd, Cr, Pb, Ni, Se, Ag, Tl, V	SW-846 8270C (Paragon): Semivolatile Organics	SW-846 8260B (Paragon): VOCs by Tekmar	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
075	AX	XA	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 (ORISE)	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs (Aroclor 1254) (Paragon)	SW-846 8082 (Paragon): Aroclor 1260	SW-846 8082 (Paragon): Aroclor 1016	SW-846 8082 (Paragon): Aroclor 1254	SW-846 8082A (Paragon): Aroclor 1260	SW-846 8082A (Paragon): Aroclor 1016	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 6010B (Paragon): Cr	SW-846 6010B (Paragon): Ni	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: ☐

Regular / Confirmation Sample ☐ Gamma Only ☐ Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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 Preparation (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 (GREL)	Alpha Spectroscopy (GREL)	U-234 (GREL)	U-235 (GREL)	U-238 (GREL)	Tc-99 by Liquid Scint (GREL)	PCBs (Paragon)	SW8260B (Paragon)	SW8270C (Paragon)	SW846 8270C (Paragon)	SW846 8260B (Paragon)	SW8151A (Paragon)	SW6020 (Paragon)	SW6010B (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																					
075	DX	XA	1	✓	✓																		

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Field Sampler: Robert Posner / _____ **Date:** 6/16/11
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FIELD SAMPLE DATA SHEET

NCP 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

SVMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma 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: Aroclor 1254 (Paragon)	SVOAs: Benzo(a)pyrene (Paragon)	SVOAs: Benzo(a)pyrene (Paragon)	SVOAs: 8270D (Paragon)	SVOAs: 8270D (Paragon)	SVOAs: 8270D (Paragon)	SVOAs: 8270D (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 (Paragon): Co-60, Cs-137, Ra-226	Ag-108m, Am-241, Eu-152, Eu-154, Eu-155	Pb-210, Ra-226 (ORISE)	Th-230, Th-232 (ORISE)	Ra-226, Ra-228 (Paragon)	Sr-90 (Paragon)	SW-846 6010C (Paragon): Arsenic, Barium	SW-846 6020 (Paragon): Beryllium, Cadmium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc	SW-846 8260B (Paragon): Acetone, Benzene, 2-Butanone, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, 1,2-Dichloroethane, 1,1-Dichloroethene, Ethylbenzene, 2-Hexanone, Methylene chloride, 4-Methyl-2-pentanone, Styrene, 1,1,2,2-Tetrachloroethane, Tetrachloroethene, Toluene, 1,1,1-Trichloroethane, Trichloroethene, Vinyl acetate, Vinyl chloride, Xylenes (total)	SW-846 8270C (Paragon): Acenaphthene, Acenaphthylene, Anthracene, Benzo(a)anthracene, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzo(k)fluoranthene, Benzoic acid, Benzo(a)pyrene, Bis(2-chloroethoxy)methane, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Bis(2-ethylhexyl)phthalate, 4-Bromophenyl-phenylether, Butylbenzylphthalate, 4-Chloro-3-methylphenol, 2-Chloronaphthalene, 2-Chlorophenol, 4-Chlorophenyl-phenylether, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 3,3-Dichlorobenzidine, 2,4-Dichlorophenol, Diethylphthalate, 2,4-Dimethylphenol, Dimethylphthalate, Di-n-butylphthalate, 4,6-Dinitro-2-methylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Hexachloroethane, Indeno(1,2,3-cd)pyrene, Isophorone, 2-Methylnaphthalene, 2-Methylphenol, 4-Methylphenol, Naphthalene, 2-Nitroaniline, 3-Nitroaniline, 4-Nitroaniline, Nitrobenzene, 2-Nitrophenol, 4-Nitrophenol, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine, Pentachlorophenol, Phenanthrene, Phenol, Pyrene, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol	SW-846 8270C (Paragon): Aniline, Benzidine, Carbazole, Dibenzofuran, 1,4-Dioxane, 2-Picoline		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)	Sr-90 by Liquid Scint (ORISE)	Gamma Spectroscopy (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Gamma Spectroscopy (TestAmerica)	SW-846 8015C (Paragon) Acetone	SW-846 8270C (Paragon) Semivolatile Organics	SW-846 8260B (Paragon) Volatile Organics	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
075	6X	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** 6/23/11	**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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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: 13:54	
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

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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

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** 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

[redacted]

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

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Field Sampler: Robert Posner / [signature] (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 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 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** 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 Id and Sample #

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

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/28/11	**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 ☐ Archive 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 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** 13:30
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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Fax 970.256.7356

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 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)	[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	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 Sampler: Robert Posner / _____ **Date:** 6/29/11
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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 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): Co-60, Cs-137, Eu-152, Eu-154, Eu-155, Ra-226, Ra-228, Th-228, Th-230, Th-232, U-235	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 Matrix 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** 10:08
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: [illegible]

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

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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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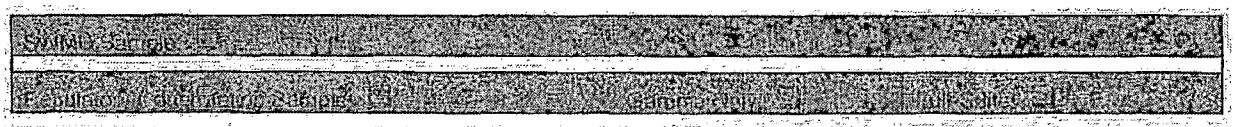
FIELD SAMPLE DATA SHEET

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 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)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
080	AX	XA	1	✓	✓																
080	AX	XG	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** 0905	
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)	Isotopic Uranium (NFS)	Isotopic Thorium (NFS)	Sr-90 (Paragon)	Gross Alpha/Beta (Paragon)	Isotopic Uranium (Paragon)	Isotopic Thorium (Paragon)	Ra-226 (Paragon)	Ra-228 (Paragon)	Isotopic Neptunium (Paragon)	Isotopic Plutonium (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 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, Cs-137, Eu-152, Eu-154, Eu-155	Ni-63 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (Paragon)	Ra-226 by Rn-222 Ingrowth (Paragon)	Th-230 by Alpha Spec (Paragon)	Th-232 by Alpha Spec (Paragon)	Pa-231 by Alpha Spec (Paragon)	U-233/234 by Alpha Spec (Paragon)	U-235 by Alpha Spec (Paragon)	U-238 by Alpha Spec (Paragon)	Np-237 by Alpha Spec (Paragon)	Pu-238 by Alpha Spec (Paragon)	Pu-239/240 by Alpha Spec (Paragon)	Am-241 by Alpha Spec (Paragon)	Cm-243/244 by Alpha Spec (Paragon)	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 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 (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	SW846 6020 (Paragon): Metals	SW846 6010C (Paragon): Metals	SW846 8270C (Paragon): Semi-Volatiles	SW846 6010C (Paragon): Metals	SW846 6020 (Paragon): Metals	SW846 6020 (Paragon): Metals		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 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: ☐

Routine/Confirmatory ☐ Delineation ☐ 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)	Sr-90 by Gas Proportional (ORISE)	Alpha Spectroscopy (ORISE)	Ra-226 by Rn-222 Emanation (ORISE)	Th-230 by Th-234 Ingrowth (ORISE)	Total Uranium (KPA)	SWMU-specific COCs (Paragon)	Strontium-90 (Paragon)	Gross Alpha (Paragon)	Gross Beta (Paragon)	Uranium Isotopic (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 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	Pb-210 (Paragon)	Ra-226 (Paragon)	Sr-90 (Paragon)	Th-230 (Paragon)	Th-232 (Paragon)	Uranium (Paragon)	Th-228 (Paragon)		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

SWMU Sample ☐ Full-Suite Radiological ☐

Background Sample ☐ Reference Area ☐ Full-Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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

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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)	ICES: Anode 125 (Paragon)	SW-846 8010 (Paragon): Benzene	SW-846 8270C (PEAC): Semi-Volatile Organics	SW-846 8260B (Paragon): VOCs by GC/MS	SW-846 8081A (Paragon): Organochlorine Pesticides	SW-846 8151A (Paragon): Herbicides		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
081	AX	XA	1	✓	✓																

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Field Sampler: Robert Posner / _____ **Date:** 6/17/11
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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 6/17/11 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 Emanation (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs (Aroclors) (SW-846 8082 (Paragon))	SW-846 6010C (Paragon) Arsenic, Beryllium	SW-846 8270C (Paragon) Semi-volatile Organics	SW-846 6020 (Paragon) Cadmium, Cobalt, Lead, Nickel, Selenium, Silver, Thallium	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
081	BX	XA	1	✓	✓	✓	✓	✓													✓
081	BX	XF	1						✓												✓

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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-241 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): Diesel Range Organics	SW-846 8270C (Paragon): Semivolatile Organics	SW-846 8260B (Paragon): Volatile Organics	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 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)	Gamma Spectroscopy (ORISE) Sr-90, Pu, Th	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCBS Americium-241 (Paragon)	SW846 6010C (Paragon) Arsenic, Selenium	SW846 8270C (Paragon) SemiVOC - Dioxins	SW846 8260B (Paragon) VOC by Pre-Pur/GC/MS	SW846 7196A (Paragon) Hexavalent Chromium	SW846 6010C (Paragon) Beryllium, Nickel		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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(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/22/11	**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)	Ra-226 by Rn-222 Ingrowth (ORISE)	Pu-241 by LSC (ORISE)	Pu-238 by Alpha Spectroscopy (ORISE)	Th-230 by Alpha Spectroscopy (ORISE)	Tc-99 by LSC (ORISE)	Ra-226 by Rn-222 Ingrowth (Paragon)	SW-846 6010 (Paragon)	SW-846 6020 (Paragon)	SW-846 7471 (Paragon)	SW-846 9045 (Paragon)	SW-846 9056 (Paragon)	SW-846 9065 (Paragon)	SW-846 9095 (Paragon)	SW-846 9310 (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 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 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** 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: ☐

Replicate/Co-Located Sample ☐ Equipment Blank ☐ Trip Blank ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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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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** 6/1/11	**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 ☐

Radiological Analysis

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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 / (Print and Sign) **Date:** 6/1/11

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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: ☐

Replicate 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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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 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: ☒

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 (NFS)	Am-241 by Alpha Spectroscopy (NFS)	Pu-238 by Alpha Spectroscopy (NFS)	Pu-239/240 by Alpha Spectroscopy (NFS)	U-233/234 by Alpha Spectroscopy (NFS)	U-238 by Alpha Spectroscopy (NFS)	Sr-90 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (NFS)	Sr-90 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (NFS)	Sr-90 by Liquid Scint (Paragon)	Sr-90 by Liquid Scint (NFS)	Sr-90 by Liquid Scint (Paragon)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
084	AX	XA	1	✓	✓	✓	✓	✓														
084	AX	XF	1						✓													✓

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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: ☐

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)	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

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 4	**Date Collected** 6/16/11 **Time Collected** 1450
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 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** 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)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
084	DX	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 6/16/11	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 (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Gamma Spectroscopy (ORISE)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
084	EX	XA	1	✓	✓																	

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Fax 970.256.7356

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: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc (Paragon)	SW-846: 8270D (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): Volatile Organics	SW-846: 6010B (Paragon): Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
085	AX	XA	1	✓	✓															

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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 (TAL)	Sr-90 by GFPC (ORISE)	Am, Pu, U, Th (ORISE)	Pu-241 by LSC (ORISE)	Tc-99 by LSC (ORISE)	PCBs Aroclors (Paragon)	Sr-90 by GFPC (Paragon)	Isotopic Uranium (Paragon)	Sr-90 (Paragon)	Total Volatile Organics (Paragon)	Total SVOCs (Paragon)	Hexavalent Chromium (Paragon)	Total Metals (Paragon)			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 Radiochemistry (ORISE)	Sr-90 by Liquid Scint (ORISE)	Cs-137 by Gamma Spectroscopy (Paragon)	Sr-90 by Liquid Scint (Paragon)	Ra-226 by Gamma Spectroscopy (Paragon)	Th-232 by Gamma Spectroscopy (Paragon)	Sr-90 by Radiochemistry (Paragon)	Uranium by Kinetic Phosphorescence Analysis (Paragon)	Th-230 by Alpha 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	Sr-90 by Liquid Scint (QUISE)	Sr-90 by Liquid Scint (Paragon)	PCBs (Aroclors) (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260C (Paragon): VOCs	SW-846 7471B (Paragon): Mercury	SW-846 6020 (Paragon): Uranium	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 Sampler: Robert Posner / _____ (Print and Sign) **Date:** 6/24/11

NFS File Classification: DCM-23-05-02

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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)																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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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 Samples ☐

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 Sampler: Robert Posner / _____ **Date:** 6/24/11
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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 / (Print and Sign) **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 Confirmation 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

Regulatory Confirmatory Sample: [ ] No Gamma Type: [ ] Soil

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)																	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 / (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** 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 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)	Th-230, Th-232 (ORISE)	Ra-226 (ORISE)	SW-846 8100 (Paragon) Naphthalene	SW-846 8100 (Paragon) Acenaphthylene	SW-846 8270C Radium	SW-846 8270C Yttrium	SW-846 8270C Gross Alpha	SW-846 8270C Gross Beta	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Mercury (Manual)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																							
088	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 6/16/11 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)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Pb-210 (ORISE)	Sr-90 (ORISE)	SW-846 6010B (Paragon): As	SW-846 6010B (Paragon): Ba	SW-846 6010B (Paragon): Be	SW-846 6010B (Paragon): Cr	SW-846 6010B (Paragon): Pb	SW-846 6010B (Paragon): Ni	SW-846 6010B (Paragon): V	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
088	BX	XA	1	✓	✓																	

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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 Cut: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Pb-210 by Gamma Spec (ORISE)	Ra-226 by Gamma Spec (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs Aroclors (SW846 8082 Paragon)	SW846 8260 Target Analyte List (Paragon)	SW846 8270 Paragon Semivolatiles	SW846 8015 Paragon Volatiles	SW846 8015 Paragon Semivolatiles	Sr-90	Uranium		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 Alpha Spectroscopy (Paragon)	Isotopic Th (Paragon)	Isotopic U (Paragon)	Sr-90 by Beta Counting (Paragon)	Sr-90 by Beta Counting (Paragon) - Dry Farm Core	Isotopic Pu (Paragon)	Isotopic Pu (TORSE)	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)	Sr-90 by Liq. Scint. (ORISE)	Tc-99 by Liq. Scint. (ORISE)	Gamma Spec. (Paragon)	Sr-90 (Paragon)	SW-846 6010C (Paragon)	SW-846 6020A (Paragon) Soil Volatiles	SW-846 8270C (Paragon) Soil Volatiles	Soil Moisture	SW-846 6010C (Paragon)	SW-846 6020A (Paragon)	SW-846 8270C (Paragon)		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
088	EX	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** 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 Set: Full-Suite Radiological: ☒

Remediation 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 #																	
089	AX	XA	1	✓	✓	✓	✓	✓											✓
089		XF	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** 6/24/11	**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

QA/QC Samples ☐ Full-Suite Radiological ☐

Request for Analysis

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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

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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 (Y or N): N Date: 6/22/11 Full Suite ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma 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	XH	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 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 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)	RCRA Appendix IX (Paragon)	SW-846 6010C (Paragon): Ag, Be, Cd, Ba	SW-846 6020 (Paragon): Sb, Sn, V	SW-846 7470A (Paragon): Hg	SW-846 7471A (Paragon): Hg	SW-846 7196A (Paragon): Cr(VI)		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 Sampler: Robert Posner / _____ **Date:** 8/8/2011
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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)	[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	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

[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 #															
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)					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 #**																		
0751	AX	XA	1	X	X															

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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 Sampler: Robert Posner / [signature] **Date:** 8/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/8/11	**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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Fax 970.256.7356

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)	[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	HX	XA	1	X	X								

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	Date Collected 8/8/11	Time Collected 0938	
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)	[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	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

SVMQ Sample ☐
Radiation Confirmatory Sample ☐ Volatile ☐ Semi-Volatile ☐ Duplicate ☐

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 Confirmation Sample ☐ Characterization ☐ Ful 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 #										
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

SWMU Sample QA

Replicate/Confirmation Sample QA Gamma Core Full Suite 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

SWMU Sample ☐

Required Confirmation Sample ☐ Duplicate ☐ 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)	Sr-90 (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 — Soil Suite 2

Regulatory Confirmation Sample 1 — Gamma Only 3 — 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 ☐

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 ☐ Surface Soil ☐

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 ☐ Soil 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	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)	[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	BX	XA	1	X	X							

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Field Sampler: Robert Posner / _____ **Date:** 8/8/11
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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 8/8/11	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 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** 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 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)					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	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)					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	CX	XA	1	X	X															

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 8/3/2011 **Time Collected** 0924
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** 0939
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)	[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	Ax	XA	1	X	X	✓	✓	✓						
0757	Ax	XF	1						✓					✓

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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** 1520
Core ID #: 0157	**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 #**										
0157	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)	[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	CX	XA	1	X	X							

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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 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** 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

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** 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 ☐ Sample 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 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 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 Suite

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 Sampler: Robert Posner / (Print and Sign) **Date:** 7/22/2011

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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 | Full Suite | Soil/Fill

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	DX	XA	1	V	V															

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/22/2011

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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)	[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	EX	XA	1	✓	✓							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/22/2011

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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)	Co-60	Cs-137	Ra-226	Th-232	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sr-90	SW846 6010C (Fe and Ni)	SW846 6020A (Tc-99)	SW846 8290B (Dioxins)	SW846 8270D (SVOCs)	SW846 8260B (VOCs)	SW846 7470A (Hg)	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0758	FX	XA	1	X	X																

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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#: 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 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 #**								
0759	Ax	XA	1	X	X					

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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 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]	[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 #																				
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 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 ☐ Bulk Soil ☐

Sample(s) Contained in Sample ☐ Grab Sample ☐ Composite Sample ☐ 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]							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 (Cs-137, Am-241, Co-60, Eu-152, Eu-154, Ra-226, Th-232, U-235)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Pb-210 (Gamma Spec)	SW846 6020 (Pantoh) Beryllium	SW 846 8270C (Pantoh) Semi-volatile Organics	SW846 6020 (Pantoh) Uranium	SW846 7000A (Pantoh) Chromium	SW846 7471A (Pantoh) Mercury		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	X		X	X		X

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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 Comparable 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

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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)	[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	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 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** 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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected 8/4/2011** **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

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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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 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 Sampler: Chris Putnam / _____ **Date:** 8/4/2011
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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** 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 / (Print and Sign) **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 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 Sampler: Chris Putnam / (Print and Sign) **Date:** 7/28/2011

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** 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

Survey Sample ☐ Full Suite ☐

Replicate / Confirmatory 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)	PCBs	SW 846	SW 846	SW 846	SW 846	[illegible]	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]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																
0763	CX	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 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

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** 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]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0763	EX	XA	1	X	X													

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Field Sampler: Chris Putnam / (Print and Sign) **Date:** 7/28/2011

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]	[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 #**																				
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: [illegible]

Regular / Duplicate / Blank: [illegible] Sample Type: [illegible] Full Suite: [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]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #																
0763	GX	XA	1	X	X													

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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 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** 1659
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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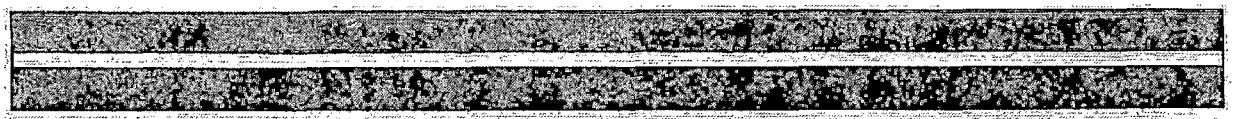
FIELD SAMPLE DATA SHEET

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 #: 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)	[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	IX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/27/2011

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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)	[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	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 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** 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 I (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 #: 0766	**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, Sieve (Paragon)	Tc-99 by Liquid 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 GC/MS	SW-846 6020 (Paragon) Uranium	SW-846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0766	AX	XA	1	X	X	✓	✓	✓													
0766	AX	XF	1						X												X

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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): Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid 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)	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846 8270C (Paragon): Semivolatile Organics	SW 846 8260B (Paragon): VOCs (m,p) via Core	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 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 1254/1260 (Paragon)	SW 846 6010C (Paragon) Arsenic, Beryllium	SW 846 8270E (Paragon) Semi-Volatile Organics	SW 846 8260B (Paragon) VOCs (Tentatively Identified Compounds)	SW 846 7196A (Paragon) Hexavalent Chromium	SW 846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0716	CX	XA	1	X	X																

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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

Rel 9/12/11

Survey Unit ID#: 6	**Date Collected** 9/9/11	**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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Fax 970.256.7356

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
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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 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

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** 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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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 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** 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 / (Print and Sign) **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 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 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**
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 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 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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	[redacted]			Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Tn	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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Field Sampler: Robert Posner / [signature] **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 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 or 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

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 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]

Related Confirmation Sample ID: [illegible] Sample Qty: [illegible] Split 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]	[illegible]	[illegible]	[illegible]	[illegible]	[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)	[redacted]	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs	SW-846 6010C (Cadmium, Arsenic, Barium	SW-846 8270D (Benzo(a)pyrene) Semi-Volatile Org	SW-846 8260B (Acetone) Volatile Organics	SW-846 7471B (Mercury)	SW-846 6020A (Lead)	SW-846 7740 (Beryllium)	[redacted]	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

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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/MU 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, Pu (Perma)	SW-846 8070C (Paragon) Hexavalent Chromium	SW-846 8260B (Paragon) VOCs	SW-846 8260B (Paragon) VOCs, Low	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7471A (Paragon) 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 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: [X] Full Suite

Replicate/Confirmation 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	SW-846 8260B (Full List) VOCs	SW-846 8270C (Full List) SVOCs	SW-846 8260B (Full List) VOCs	SW-846 8270C (Full List) SVOCs	SW-846 6010B (Full List) Metals	SW-846 7471A (Full List) 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
(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** 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

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 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 / (Print and Sign) **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 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 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** 0727
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 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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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** 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 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)	[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	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]			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

[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	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]	[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 #																			
0776	CX	XA	1	X	X																

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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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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 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

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 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

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)	Tc-99 by Liquid Scint (ORISE)	[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 Sampler: Chris Putnam / (Print and Sign) **Date:** 8/5/2011

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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)	[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	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)	[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 #																			
0771	AX	XA	1	X	X																

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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 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** 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 Wall

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 Sampler: Robert Posner / _____ **Date:** _____
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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 Sampler: Robert Posner / (Print and Sign) **Date:** 7/25/2011

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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)					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 #**																		
0780	BX	XA	1	X	X															
0780	BX	XG	1														X			X
0780	BX	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 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

[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	CX	XA	1	X	X							
0780	CX	XG	1								X	X
0780	CX	XH	1								X X X X X X	X

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Field Sampler: Chris Putnam / _____ **Date:** 8/2/2011
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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]	Sample Archive (Freeze)
Core #	Segment #	Sample #										
0781	AX	XA	1	X	X							

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Field Sampler: Robert Posner/ (Print and Sign) **Date:** 8/10/2011

NFS File Classification: DCM-23-05-02

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FXX 970.256.7356

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 Preparation

Dry Combustion

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

Sample

Continued

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 Y K						
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

Sampler:

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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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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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 ☐ Yes ☐ No

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)	RCRA Metals 1311 (Paragon)	SW846 6010 (Paragon) Semi-Quantitative Scan	SW846 6020 (Paragon) Semi-Quantitative Scan	SW846 6020 (Paragon) Target Analytes	SW846 7471A (Paragon) Mercury	SW846 9056 (Paragon) Bromide		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	Isotopic Th	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 Panel	SW 846 6010B: Inductively Coupled Plasma - Atomic Emission Spectrometry: Beryllium	SW 846 8270C: Semivolatile Organic Compounds by GC/MS: Benzo(a)pyrene	SW 846 8260B: Volatile Organic Compounds by GC/MS: Methylene Chloride	SW 846 6010B: Inductively Coupled Plasma - Atomic Emission Spectrometry: Nickel	SW 846 6010B: Inductively Coupled Plasma - Atomic Emission Spectrometry: Silver	SW 846 6010B: Inductively Coupled Plasma - Atomic Emission Spectrometry: Zinc		Sample Preservation (Check If YES)
Core #	Segment #	Sample #																				
0784	BX	XA	1	X	X																	

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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: ☐ Gamma Only: ☐ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Sr-90 (Perkin Elmer)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Sr-90 (Perkin Elmer)	Sr-90 (Paragon)	Sr-90 (Paragon)	Sr-90 (Paragon)	Sr-90 (Paragon)	Sr-90 (Paragon)	Sr-90 (Paragon)	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

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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 [ ]

Regulatory Confirmation Sample [ ] Grab Sample Only [ ] Split Sample [ ]

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 #**																			
0784	DX	XA	1	X	X																

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Field Sampler: Chris Putnam / **Date:** 8/2/2011
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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 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 Sample? ☐ Surface Soil ☐

Regulatory Confirmation Sample ☐ Gamma Walk ☐ Fill Soil ☐

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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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** 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

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 / _____ **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

SWMU

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 Sampler: Robert Posner / _____ **Date:** 7/25/2011
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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

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** 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 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
(Print and Sign)

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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)	[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 #**										
0786	BX	XA	1	✓	✓							

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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 Sampler: Robert Posner / _____ **Date:** 7/22/2011
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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:

Type of Container

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

Soil Sample

Dry Confirmation

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 #										
0787	BX	XA	1	X	X							

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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:

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]	Archive Sample (Check if YES)
Core #	Segment #	Sample #										
0787	CX	XA	1	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** 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]	Essroc Observation (Check if YES)
Core #	**Segment #**	**Sample #**										
0787	DX	XA	1	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 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]	Preservation (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 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** 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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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** 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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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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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**	8/10/2011	**Time Collected**
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

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 #													SW 846 6010C (Paragon): Arsenic, Beryllium		SW 846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon): VOCs by Terra Core			
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/ (Print and Sig) **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 ☐
Regulated Unit Sample ☐ Area ☐ 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)	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	[redacted]		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 Sampler: Robert Posner / (Print and Sign) Date: 8/10/2011

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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)	Pb-210 by Alpha Spec (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	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

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#: 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

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 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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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)	[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 #**																			
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 #: 07GL	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 #										
07GL	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]							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

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 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 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 (Paducah)	Alpha Spectroscopy (Paducah): 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)								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: [redacted] Gamma Only [redacted]

| 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)	[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]	Cyanide Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																			
0794	CX	XA	1	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 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: [illegible]

Regulatory Confirmation Sample: [illegible] Gamma Data: [illegible]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (ORISE)	X-ray Spectroscopy (ORISE): Am, Pu, U, Th	[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 #												
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

SWMU Sample: Full

Confirmatory Confirmation Sample: No

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Fastscan) (Ra, Am, Pu, U, Th)	Alpha Spectroscopy (Ra, 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)								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 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 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

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 Sampler: Robert Posner / _____ **Date:** 8/9/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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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 #										
CP Initials 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 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 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

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 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

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** 1134
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)	[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	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 [illegible]
Regulatory Confirmation Sample [illegible] Gamma Only [illegible] Full Suite [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 #**										
0799	AX	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** 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

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]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[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 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													
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]	[redacted]	Duplicate Designation (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 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 Area:

Regulatory Confirmation Sample: | Gamma Only: [illegible]

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 (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid 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)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	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 Radi

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: Full-Suite Ra
Regulatory Confirmation S Gamma Only Il-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	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 Sample(s) | Full-Suite Rad

Regulatory Confirmation Sample(s) | Gamma Only | Full-Suite

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U,Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid 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 (Perkin) Alpha Spectrum	Sr-90 7196 (Perkin) Alpha Spectrum				Sample 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

[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	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 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

[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	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)	[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	AX	XA	1	X	X							

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Field Sampler: Robert Posner / (Print and Sign) **Date:** 7/26/2011

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** 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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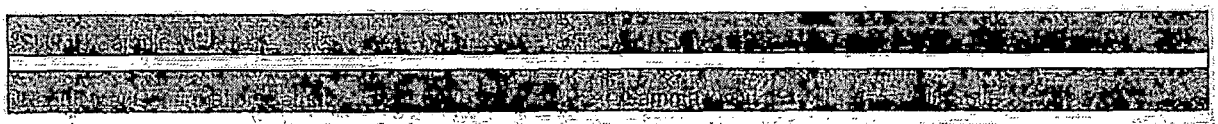
FIELD SAMPLE DATA SHEET

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

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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 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** 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

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 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**	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

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)					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 #																			
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)	[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 #										
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 Sampler: Robert Posner / _____ **Date:** 7/26/2016
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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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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 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)	[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	BX	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** 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 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 1511	
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)					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 #																		
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 #: 0808 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)	[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	EX	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** 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 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**	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 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 1325
Core ID #: 0807	Core Segment ID #: ~~GT~~ 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 Sampler: Robert Posner / _____ **Date:** 8/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6	**Date Collected** 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 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** 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/MU 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 Sampler: Robert Posner / (Print and Sign) **Date:** 7/26/2011

NFS File Classification: DCM-23-05-02

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#: 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 Sampler: Robert Posner / (Print and Sign) **Date:** 7/26/2011

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Fax 970.256.7356

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

NFS File Classification: DCM-23-05-02

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Grand Junction, CO 81506
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Fax 970.256.7356

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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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 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 / (Print and Sign) **Date:** 8/2/2011

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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751 Horizon Ct. Suite 104
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
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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)	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 #								
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 I 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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Phone 412.279.6661

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 Core	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	X1	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 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
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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** 10/04/13 **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 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	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
(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** 10/02/13 **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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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	Fe-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	DX	XA	1	✓	✓																

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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 (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** 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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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 TerraCore	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-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	IX	NO RECOVERY																			

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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 / (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** 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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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** 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

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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 / 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** 10/09/13 **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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/09/13 **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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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** 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

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** 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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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 Tera 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 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 Tera 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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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** 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 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 Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/01/13
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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** 10/01/13 **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 **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 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 Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/01/13
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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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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **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): 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 #																			
7006	BX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / 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** 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 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 #																			
7006	CX	XA	1	✓	✓																

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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: 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 #																			
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			
Core #	Segment #	Sample #																				Sample Preservation (Check if YES)
7006	EX	XA	1	✓	✓																	

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Field Sampler: Alejandro Lopez / Alex Lopez (Print and Sign) **Date:** 10/04/13

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 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 SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/04/13 **Time Collected** 1300
Core ID #: 7006	**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:** 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	1X	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	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 #																			
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 pyrl ent a 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 / Alejandro 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** 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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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)	PCBs: Aroclor-7254 (Paragon)	SW846 6010C (Paragon): Arsenic,Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Term Pore	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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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 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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **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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Field Sampler: Alejandro Lopez / Alex 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** 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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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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Pittsburgh, PA 15106
Phone 412.279.6661

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 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, Ardcor 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	HX	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** 10/07/13 **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 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 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** 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 I 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** 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-240 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 SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/07/13 **Time Collected** 1013
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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(Print and Sign)

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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 Terra Core	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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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** 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 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 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** 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 Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/07/13

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 10/08/13 **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 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** 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 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** 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 Sampler: Alejandro Lopez / A. 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** 1140
Core ID #: 7010	**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)	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	0X	XA	1	✓	✓																
7010	0X	XG	1											✓	✓	✓	✓				✓
7010	0X	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 Sampler: Alejandro Lopez / (Print and Sign) **Date:** 10/08/13

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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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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 Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
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Phone 412.279.6661

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 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** 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	X4	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** 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 López **Project No:** 9120071235

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid 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 #																			
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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NFS File Classification: DCM-23-05-02

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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	SW8467: 7196A (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 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 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** 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 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** 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 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** 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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13 **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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/30/13	**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 (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 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

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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 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	FX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alejandro Lopez (Print and Sign) **Date:** 9/30/13

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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

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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

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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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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 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 **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 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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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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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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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** 10/07/13 **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 Terra 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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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

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** 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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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** 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 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(76) 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	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 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 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 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 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** 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

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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 / 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** 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	SW 846: 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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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, Beryllium	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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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
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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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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 (Print and Sign) **Date:** 9/26/13

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** 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 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 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 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 / 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** 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 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 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 Sampler: Alejandro Lopez (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** 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 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 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** 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 / Alejandro Lopez **Date:** 9/27/13
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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** 9/27/13 **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

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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	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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AMEC Environment & Infrastructure
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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 Terra 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 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 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 TerraCore	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 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 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)	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	GX	XA	1	✓	✓																

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Field Sampler: Alejandro Lopez / Alex Lopez **Date:** 9/30/13
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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** 9/30/13 **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** 1430
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 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 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** 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 Terra 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 Sampler: Alejandro Lopez / (Print and Sign) Date: 9/30/13

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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 Sampler: Alejandro Lopez / (Print and Sign) **Date:** 9/30/13

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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)	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	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 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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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** 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 Sampler: Alejandro Lopez / Alex Lopez **Date:** 10/09/13
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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
(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** 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
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NFS File Classification: DCM-23-05-02

AMEC Environment & Infrastructure
800 North Bell Avenue Suite 200
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Phone 412.279.6661

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
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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** 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 (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** 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 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 **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 I	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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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** 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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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** 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 (Print and Sign) **Date:** 9/26/13

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 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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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** 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

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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
(Print and Sign)

NFS File Classification: DCM-23-05-02

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FIELD SAMPLE DATA SHEET

Survey Unit ID#: 7	**Date Collected** 9/25/13 **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

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** 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 **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** 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 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 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 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 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 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 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 Terra 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 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** 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 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 Terra 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 **Date:** 9/25/13
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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 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
(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 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)	SW846 6010C (Paragon): Arsenic, Barium	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 #																			
7029	6X	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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Phone 412.279.6661

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 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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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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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 Sampler: Alejandro Lopez / Alejandro Lopez **Date:** 10/09/13
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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 / (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** 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 / (Print and Sign) **Date:** 10/09/13

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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

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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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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** 1142
Core ID #: 7031	**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 #																			
0731	0X	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

AMEC Environment & Infrastructure
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Pittsburgh, PA 15106
Phone 412.279.6661

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
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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 254 (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

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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 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 **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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