Appendix E.6

Field Sample Data Sheets

Survey Unit 17

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#: 17	**Date Collected** 4/4/11 **Time Collected** 0924
Core ID #: 0612	**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 #																			
0612	AX	XA	1	✓	✓	✓	✓	✓													
0612	AX	XF	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: Robert Posner / (Print and Sign)

Date: 4/4/11 RCP 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 0931
Core ID #: 0612	**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 #																			
0612	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected** 0936	
Core ID #: 0612	**Core Segment ID #:** 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 #																			
0612	CX	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: Robert Posner / _____ **Date:** 4/14/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 0941
Core ID #: 0612	**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 #																			
0612	DX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11 **Time Collected** 0954
Core ID #: 062	**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 #																			
062	EX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 0958
Core ID #: C612	**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 #																			
C612	FX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1014
Core ID #: 0612	**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 #																			
0612	GX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 4/4/11	Time Collected 1020
Core ID #: 0612	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 #																			
0612	HX	X4	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: Robert Posner / (Print and Sign) Date: 4/4/11

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#: 17	**Date Collected** 4/6/11	**Time Collected** 0953
Core ID #: 0613	**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 #																			
0613	AX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/6/11	**Time Collected** 0957	
Core ID #: 0613	**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 #																			
0613	BX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0613	BX	XF	1						✓												
0613	BX	XE	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/6/11	**Time Collected**	1005
Core ID #: 0613	**Core Segment ID #:** 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 (Cry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (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 #																			
0613	CX	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: Robert Posner / _____ **Date:** 4/6/11
(Print and Sign)

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#: 17	**Date Collected** 4/6/11	**Time Collected** 1010	
Core ID #: C613	**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 #																			
C613	DX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 4/6/11	Time Collected 1019
Core ID #: 0613	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 #																			
0613	EX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/6/11	**Time Collected**	1017
Core ID #: 0613	**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 #																			
0613	FX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1045
Core ID #: 0614	**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 #																			
0614	AX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected**	1049
Core ID #: 0614	**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 #																			
0614	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected**	1053
Core ID #: 0614	**Core Segment ID #:** 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 #																			
0614	CX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1106
Core ID #: 0614	**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 #																			
0614	DX	XA	1	✓	✓	✓	✓	✓													
0614	~~DX~~ DX	XF	1						✓												✓
	RGP 4/4/11																				

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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected**	1113
Core ID #: 0614	**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 #																			
0614	EX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1231
Core ID #: 0615	**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 #																			
0615	AX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11	**Time Collected**	1257
Core ID #: 0615	**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 #																			
0615	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1241
Core ID #: 0615	**Core Segment ID #:** 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 #																			
0615	CX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1244
Core ID #: 0615	**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 #																			
0615	DX	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: Robert Posner (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1250
Core ID #: 0615	**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 #																			
0615	EX	XA	1	✓	✓	✓	✓	✓													
0615	EX	XF	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1256
Core ID #: 0615	**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 #																			
0615	FX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1301
Core ID #: 0615	**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 Tera Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0615	GX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1322
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: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0616	Ax	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: Robert Posner / _____ (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 4/4/11	Time Collected 1325
Core ID #: 0616	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 #																			
0616	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1338	
Core ID #: 0616	**Core Segment ID #:** 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 #																			
0616	CX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected**	4/4/11	**Time Collected** 1345
Core ID #: 0616	**Core Segment ID #:** DY		

Site: NFS North Site 1205 Banner 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 #																			
0616	DY	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1350
Core ID #: 0616	**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 #																			
0616	EX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1400	
Core ID #: 0616	**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 #																			
0616	FX	XA	1	✓	✓																

Knowingly or willfully falsifying or concealing a material fact on this form, or making false, ficlitious or fraudulent statements or representations herein could constitute a felony punishable under Federal Statutes

Field Sampler: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1404
Core ID #: 0616	**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 #																			
0616	GX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1409
Core ID #: 0616	**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 #																			
0616	HX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1458
Core ID #: 0617	**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 #																			
0617	AX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1445
Core ID #: 0617	**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 #																			
0617	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

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#: 17	**Date Collected** 04/04/11 **Time Collected** 1450
Core ID #: 0617	**Core Segment ID #:** 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 #																			
0617	CX	XA	1	✓	✓	✓	✓	✓													
0617	CX	XF	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1456
Core ID #: 0617	**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 #																			
0617	DX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11 **Time Collected** 1510
Core ID #: 0617	**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 #																			
0617	EX	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: Robert Posner / (Print and Sign) **Date:** 4/4/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/4/11	**Time Collected** 1515	
Core ID #: 0617	**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 #																			
0617	FX	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: Robert Posner / _____ **Date:** 4/4/11
(Print and Sign)

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1035
Core ID #: C618	**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 #																			
C618	AX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/6/11	**Time Collected**	1037
Core ID #: 0618	**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 #																			
0618	BX	XA																			
0618	BX	XE																			
0618	BX	XF																			

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: Robert Posner I _____ **Date:** 4/6/11
(Print and Sign)

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1045
Core ID #: 0618	**Core Segment ID #:** 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 #																			
0618	CX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/6/11	**Time Collected**	1056
Core ID #: 06B	**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 #																			
06B	DX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1100
Core ID #: C618	**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 #																			
C618	EX	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: Robert Posner / _____ (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/6/11	**Time Collected**	1109
Core ID #: C618	**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 #																			
C618	FX	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1147
Core ID #: 0619	**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 #																			
0619	AX	XA	1	✓	✓	✓	✓	✓													
0619	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 4/6/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1147
Core ID #: C619	**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 #																			
C619	BX	XA1	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: Robert Posner / _____ **Date:** 4/6/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1151
Core ID #: 0619	**Core Segment ID #:** 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 #																			
0619	CX	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: Robert Posner / _____ **Date:** 4/6/11
(Print and Sign)

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1159
Core ID #: 0619	**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 #																			
0619	DX	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: Robert Posner / _____ **Date:** 4/6/11
(Print and Sign)

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#: 17	**Date Collected** 4/6/11 **Time Collected** 1205
Core ID #: 0619	**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 #																			
0619	Ex	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: Robert Posner / _____ **Date:** 4/6/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/13/11	**Time Collected** 1358	
Core ID #: 0620	**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 #																				
0620	AX	XA	1	✓	✓																	
0620	AX	XB	1															✓				✓
0620	AX	XH	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1400
Core ID #: 0620	**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 #																			
0620	BX	XA	1	✓	✓																
0620	BX	XG	1														✓				✓
0620	BX	XH	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/13/11	Time Collected 1403
Core ID #: 0620	Core Segment ID #: 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 #																			
0620	CX	XA	1	✓	✓																
0620	CX	XG	1														✓				✓
0620	CX	XH	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**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 #																			
0620	DX	XA	1	✓	✓																
0620	DX	XG	1															✓			✓
0620	DX	XH	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**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 #																			
0620	EX	XA	1	✓	✓																
0620	EX	XG	1															✓			
0620	EX	XH	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: Robert Posner I (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**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 #																			
0620	FX	XA	1	✓	✓																
0620	FX	XG	1														✓				✓
0620	FX	XH	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**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 #																			
0620	GX	XA	1	✓	✓																
0620	GX	XG	1														✓				✓
0620	GX	XH	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: Robert Posner / _____ (Print and Sign) **Date:** 6/13/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**Core Segment ID #:** 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, 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 #																			
0620	CX	XA	1	✓	✓																
0620	CX	XG	1															✓			✓
0620	CX	XH	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11 **Time Collected**
Core ID #: 0620	**Core Segment ID #:** 3X

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

SWMU Sample: ☒ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0620	3X	XA	1	✓	✓																
0620	3X	XG	1														✓				✓
0620	3X	XH	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1106
Core ID #: 0621	**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 #																			
0621	AX	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1110
Core ID #: 0621	**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 #																			
0621	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: Robert Posner / _____ (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** ~~6/6/11~~ 6/13/11 **Time Collected** 1113
Core ID #: 0621	**Core Segment ID #:** 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 #																			
0621	CX	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1120
Core ID #: 0621	**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 #																			
0621	DX	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1126
Core ID #: 0621	**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 #																			
0621	EX	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: Robert Posner / _____ **Date:** 6/13/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/13/11 Time Collected 1132
Core ID #: 6" liq 6" dry 0621	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 #																			
0621	FX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/13/11	Time Collected 1142	
Core ID #: 062	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 #																			
062	GX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11	**Time Collected**	1156
Core ID #: 0621	**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 #																			
0621	HX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11	**Time Collected** 1200
Core ID #: 0621	**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 #																			
0621	IX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11	**Time Collected** 1120	
Core ID #: 0621	**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: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846 6010C (Paragon): Arsenic, Beryllium	SW 846 8270C (Paragon): Semi-Volatile Organics	SW 846 8260B (Paragon): VOCs by Terra Core	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0621	JX	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11	**Time Collected**	1508
Core ID #: 0622	**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 #																			
0622	AX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1512
Core ID #: 0622	**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 #																			
0622	BX	XA	1	✓	✓																

Knowingly or willfully falsifying or concealing a material fact on this form, or making false, ficitious or fraudulent statements or representations herein could constitute a felony punishable under Federal Statutes

Field Sampler: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11	**Time Collected**	1515
Core ID #: 0622	**Core Segment ID #:** 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 #																			
0622	CX	XA	1	✓	✓	✓	✓	✓													
0622	CX	XF	1						✓												✓
0622	CX	XQ	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: Robert Posner / _____ **Date:** 6/13/11
(Print and Sign)

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#: 17	**Date Collected** 6/13/11	**Time Collected**	1532
Core ID #: 0622	**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 #																			
0622	DX	XA	1	✓	✓																

Knowingly or willfully falsifying or concealing a material fact on this form, or making false, ficlitious or fraudulent statements or representations herein could constitute a felony punishable under Federal Statutes

Field Sampler: Robert Posner / (Print and Sign) **Date:** 6/13/11

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#: 17	**Date Collected** 6/13/11 **Time Collected** 1536
Core ID #: 0622	**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 #																			
0622	EX	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: Robert Posner / (Print and Sign) **Date:** 6/13/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/10/11	Time Collected 1400
Core ID #: 0623	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 #																			
0623	AX	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: Robert Posner / (Print and Sign) Date: 6/10/2011

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/10/2011 Time Collected 1418
Core ID #: 6623	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 #																			
6623	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: Robert Posner / (Print and Sign) Date: 6/10/2011

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#: 17	**Date Collected** 6/10/2011 **Time Collected** 1422
Core ID #: 0623	**Core Segment ID #:** 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 #																			
0623	CX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/10/2011

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#: 17	**Date Collected** 6/10/2011 **Time Collected** 1428
Core ID #: 0623	**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 #																			
0623	DX	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 17	**Date Collected** 6/10/11 **Time Collected** 1452
Core ID #: 0623	**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 #																			
0623	EX	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 17	**Date Collected** 6/10/11 **Time Collected** 1500
Core ID #: 0623	**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 #																			
0623	Fx	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

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#: 17	**Date Collected** 6/10/11 **Time Collected** 1525
Core ID #: 0623	**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 #																			
0623	GX	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/10/11 Time Collected 1528
Core ID #: 0623	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 #																			
0623	HX	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 17	**Date Collected** 6/10/11 **Time Collected** 1530
Core ID #: 0623	**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 #																			
0623	IX	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/10/11	Time Collected 1637
Core ID #: 0623	Core Segment ID #: 3X	

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

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0623	3X	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/9/11	**Time Collected** 0954
Core ID #: 0624	**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 #																			
0624	AX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0624	AX	XE	1										✓								✓
0624	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/9/11	**Time Collected** 1001
Core ID #: 0624	**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 #																			
0624	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1004
Core ID #: 0624	**Core Segment ID #:** 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 #																			
0624	CX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

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#: 17	**Date Collected** 6/9/11	**Time Collected** 1620
Core ID #: 0624	**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 #																			
0624	DX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/9/11

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#: 17	**Date Collected** 6/9/11	**Time Collected**	1030
Core ID #: 0624	**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 #																			
0624	EX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/9/11 Time Collected 1035
Core ID #: 0624	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 #																			
0624	FX	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1058
Core ID #: 0624	**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 #																			
0624	GX	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1102
Core ID #: 0624	**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 #																			
0624	HX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1105
Core ID #: 0624	**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 #																			
0624	TX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1112
Core ID #: 0624	**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: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0624	JX	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: ~~18~~ 17	Date Collected 3/ and 4/1/11 4/1/11 Time Collected 0854
Core ID #: 0625	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 #																			
0625	Ax	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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#: 18 17	**Date Collected** 4/1/11 **Time Collected** 0901
Core ID #: 0625	**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 #																			
0625	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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#: ~~18~~ 17	**Date Collected** 4/1/11 **Time Collected** 0905
Core ID #: 0625	**Core Segment ID #:** 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 #																			
0625	CX	XA	1	✓	✓	✓	✓	✓													
0625	CX	XF	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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#: 16 4/1/17 17	**Date Collected** 4/1/17 **Time Collected** 0914
Core ID #: 0625	**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 #																			
0625	DX	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: Robert Posner / (Print and Sign) **Date:** 4/1/17

NFS File Classification: DCM-23-05-02

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

R6l 4/4/4

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 4/1/11 Time Collected 0918
Core ID #: 0625	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 #																			
0625	EX	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 4/1/11 **Time Collected** 0930
Core ID #: 0625	**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 #																			
0625	FX	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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

per 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 4/1/11	**Time Collected** 0936
Core ID #: 0625	**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 #																			
0625	GX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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#: ~~18~~ 17	**Date Collected** 4/1/11	**Time Collected** 0951	
Core ID #: 0625	**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 #																			
0625	HX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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

rcd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 4/1/11 **Time Collected** 0955
Core ID #: 0625	**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 #																			
0625	IX	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

RCB 4/4/11

Survey Unit ID#: 18 17	Date Collected 4/1/11	Time Collected 0857
Core ID #: 0625	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: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0625	JX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/7/11 Time Collected 1556
Core ID #: 0626	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 Tetra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0626	AX	XA	1	✓	✓	✓	✓	✓													
0626	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/7/11 Time Collected 1604
Core ID #: 0626	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, Arocior 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0626	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: Robert Posner / (Print and Sign) Date: 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/7/11 **Time Collected** 1607
Core ID #: 0626	**Core Segment ID #:** 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 #																			
0626	CX	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: Robert Posner / **Date:** 6/7/11
(Print and Sign)

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#: 17	Date Collected 6/7/11 Time Collected 1614
Core ID #: 6626	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 #																			
6626	DX	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/7/11 Time Collected 618
Core ID #: 0626	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 #																			
0626	EX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/7/11 **Time Collected** 1626
Core ID #: 0626	**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 #																			
0626	FX	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

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#: 17	**Date Collected** 6/7/11 **Time Collected** 1631
Core ID #: 0626	**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 #																			
0626	6X	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/7/11 Time Collected 1735
Core ID #: 0626	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 #																			
0626	HX	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: Robert Posner / _____ **Date:** 6/7/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/7/11 Time Collected 1143
Core ID #: 0626	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 #																			
0626	IX	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

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#: 17	Date Collected 6/7/11 Time Collected 1952
Core ID #: 0626	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: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0626	JX	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: Robert Posner / (Print and Sign) **Date:** 6/7/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/14/11 Time Collected 1104
Core ID #: 627	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 #																			
627	AX	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: Robert Posner / (Print and Sign) Date: 6/14/11

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1107
Core ID #: 0627	**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 #																			
0627	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1110	
Core ID #: 0627	**Core Segment ID #:** 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 #																			
0627	CX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/14/11

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1118
Core ID #: 0627	**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, Barylium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0627	DX	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

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#: 17	**Date Collected** 6/14/11 **Time Collected** 1123
Core ID #: 0627	**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 #																			
0627	EX	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: Robert Posner / (Print and Sign) **Date:** 6/14/11

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1134	
Core ID #: 0627	**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 #																			
0627	FX	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

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#: 17	**Date Collected** 6/14/11 **Time Collected** 1135
Core ID #: 0627	**Core Segment ID #:** GX

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

SWMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tetra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0627	GX	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: Robert Posner / (Print and Sign) **Date:** 6/14/11

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1147	
Core ID #: 0677	**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 #																			
0677	HX	SA	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

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#: 17	**Date Collected** 6/14/11 **Time Collected** 1196
Core ID #: D67	**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 #																			
D67	IX	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: Robert Posner / (Print and Sign) **Date:** 6/14/11

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1150	
Core ID #: 0627	**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: ☐ Gamma Only: ☐ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0627	JX	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Rec 4/4/11

Survey Unit ID#: 18 17	Date Collected / Time Collected 12:25
Core ID #: 0678	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 TerraCore	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0678	Ax	XA	1	✓	✓	✓	✓	✓	✓												
0678	Ax	XF	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: Robert Posner / (Print and Sign) Date: 4/1/2011

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

RGP 4/4/11

Survey Unit ID#: 18 17	Date Collected 4/1/11	Time Collected 1240
Core ID #: 0628	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 #																			
0628	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: Robert Posner / (Print and Sign) Date: 4/1/11

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#: 18 CX	**Date Collected** 4/1/11	**Time Collected** 1245	
Core ID #: 0628	**Core Segment ID #:** 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 #																			
0628	CX	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 4/1/2011 **Time Collected** 1302
Core ID #: 0678	**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 #																			
0678	DX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 4/1/11 **Time Collected** 1315
Core ID #: 0628	**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 #																			
0628	EX	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: Robert Posner / (Print and Sign) **Date:** 4/1/11

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

AGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 4/1/11 **Time Collected** 1320
Core ID #: 0626	**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 #																			
0626	FX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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#: 18 (4/4/11) 17	**Date Collected** 4/1/11 **Time Collected** 1332
Core ID #: 0628	**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 #																			
0628	GX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

per 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 4/1/11 **Time Collected** 1338
Core ID #: 0628	**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 #																			
0628	HX	XA	1	✓	✓	✓	✓	✓													
0628	HX	XF	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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

RGP 4/4/11

Survey Unit ID#: 18/7	**Date Collected** 4/1/11 **Time Collected** 1410
Core ID #: 0628	**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 #																			
0628	IY	XA																			

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: Robert Posner I (Print and Sign) **Date:** 4/1/11

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#: 18 17	**Date Collected** 4/1/11	**Time Collected** 1428
Core ID #: 0628	**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

SWMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0628	1X	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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#: 18 17	**Date Collected** 3/30/11	**Time Collected** 1122
Core ID #: 0629	**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 #																			
0629	AX	XA	1	✓	✓	✓	✓	✓													
0629	AX	XP	1						✓												✓
0629	AX	XQ	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: Robert Posner / (Print and Sign) _____ **Date:** 3/30/11

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

ab 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/30/11	**Time Collected** 1130	
Core ID #: 0629	**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 #																			
0629	BX	X-A	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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#: 16 17	**Date Collected** 3/30/11 **Time Collected** 1134
Core ID #: 0629	**Core Segment ID #:** 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 #																			
0629	CX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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#: 18 17	**Date Collected** 3/30/11	**Time Collected** 1140
Core ID #: 0629	**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 #																			
0629	DX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/30/11	**Time Collected** 1144
Core ID #: 0629	**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 #																			
0629	EX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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#: 18 17	**Date Collected** 3/31/11	**Time Collected** 0630	
Core ID #: 0630	**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 iTerra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0630	AX	XA	1	✓	✓																
0630	AX	XG	1													✓					✓
0630	AX	XH	1											✓	✓	✓		✓	✓		✓
FD-016-0630	AX	XG	1														✓				✓
FD-016-0630	AX	XH	1											✓	✓	✓		✓	✓		✓
MS-0630	AX	XG	1														✓				✓
MS-0630	AX	XH	1											✓	✓	✓		✓	✓		✓
MSD-0630	AX	XG	1														✓				✓
MSD-0630	AX	XH	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

cw 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/31/11 **Time Collected** 0920
Core ID #: 0630	**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 #																			
0630	BX	XA	1	✓	✓																
0630	BX	XG	1														✓				✓
0630	BX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

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#: 18 17	**Date Collected** 3/31/11 **Time Collected** 0931
Core ID #: 0630	**Core Segment ID #:** 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 #																			
0630	CX	XA																			
0630	CX	XG																			
0630	CX	XH																			

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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Rd 4/4/11

Survey Unit ID#: 18 17	Date Collected 3/31/11 Time Collected 0935
Core ID #: 0630	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 #																			
0630	DX	XA	1	✓	✓									✓	✓	✓			✓		
0630	DX	XG	1														✓				✓
0630	DX	XH	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: Robert Posner / (Print and Sign) Date: 3/31/11

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 16 17	**Date Collected** 3/31/11	**Time Collected** 0958
Core ID #: 0630	**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 #																			
0630	EX	XA	1	✓	✓																
0630	EX	XG	1													✓					✓
0630	EX	XH	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/31/11	Time Collected 1046	
Core ID #: 0631	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 #																			
0631	AX	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: Robert Posner / (Print and Sign) Date: 3/31/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/31/11	**Time Collected** 1051
Core ID #: 0631	**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 #																			
0631	BX	XA	1	✓	✓	✓	✓	✓													
0631	BX	XF	1						✓												✓
0631	BX	XQ	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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#: ~~16~~ 17	Date Collected 3/31/11	Time Collected 1100	
Core ID #: 0631	Core Segment ID #: 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 #																			
0631	CX	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/31/11	**Time Collected** 1105	
Core ID #: 0631	**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 #																			
0631	DX	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: Robert Posner / _____ (Print and Sign) **Date:** 3/31/11

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

acq 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/31/11	**Time Collected** 1114	
Core ID #: 0631	**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 #																			
0631	EX	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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#: 18 17	Date Collected 3/31/11 Time Collected 1118
Core ID #: 0631	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 #																			
0631	FX	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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#: 16 17 (66 4141)	Date Collected 3/31/11 Time Collected 1126
Core ID #: 0631	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 #																			
0631	6X	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: Robert Posner / (Print and Sign) Date: 3/31/11

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

RB 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected**	3/31/11	**Time Collected** 1139
Core ID #: 0631	**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 #																			
0631	HX	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

REP 3/31/11

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11	**Time Collected** ~~1146~~ 1142	
Core ID #: 0631	**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 #																			
0631	IX	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

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#: ~~18~~ 17	**Date Collected** 3/31/11	**Time Collected**	1146
Core ID #: 0631	**Core Segment ID #:**	3X	

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

SWMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0631	3X	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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#: 18 M 4/19/11	Date Collected 3/30/11 Time Collected 1050
Core ID #: 0632	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 #																			
0632	AX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~16~~ 17	**Date Collected** **Time Collected** 1054
Core ID #: 0632	**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 #																			
0632	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

8/4/11

Survey Unit ID#: 18 17	Date Collected 3/30/11 Time Collected
Core ID #: 0632	Core Segment ID #: 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 #																			
0632	CX	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: Robert Posner / (Print and Sign) Date: 3/30/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

AB 4/4/11

Survey Unit ID#: 18 17	Date Collected 3/30/11 Time Collected 1456
Core ID #: 0633	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 #																			
0633	AX	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: Robert Posner / (Print and Sign) Date: 3/30/11

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/30/11	**Time Collected** 1500	
Core ID #: 0633	**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 #																			
0633	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/30/11	Time Collected	1505
Core ID #: 0633	Core Segment ID #: 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 #																			
0633	CX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	**Date Collected** 3/30/11	**Time Collected**	1514
Core ID #: 0633	**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 #																			
0633	DX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

QC 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/30/11 **Time Collected** 1704
Core ID #: 0634	**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 #																			
0634	AX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

RBP 4/4/11

Survey Unit ID#: 18 17	Date Collected 3/30/11	Time Collected 1208
Core ID #: 0634	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 #																			
0634	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

Rev 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/19	**Date Collected** 3/30/11	**Time Collected** 1214
Core ID #: 0634	**Core Segment ID #:** 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 #																			
0634	CX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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

RLP 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/30/11	**Time Collected**	1222
Core ID #: 0634	**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 #																			
0634	DX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 12	**Date Collected** 3/25/11 **Time Collected** 1300
Core ID #: 0635	**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 #																			
0635	AX	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/25/11	**Time Collected**	1304
Core ID #: 0635	**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 #																			
0635	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

(W 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/25/11	**Time Collected** 1308	
Core ID #: 0635	**Core Segment ID #:** 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 #																			
0635	CX	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected**	3/25/11	**Time Collected** 1316
Core ID #: 0635	**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 #																			
0635	DX	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11 Time Collected 1305
Core ID #: ~~0636~~ 0636 6/8/11	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 #																			
0636	AX	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: Robert Posner / (Print and Sign) Date: 6/8/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11	Time Collected 1309	
Core ID #: 0636	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 #																			
0636	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/8/11 **Time Collected** 1312
Core ID #: 0636	**Core Segment ID #:** 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 #																			
0636	CX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓	✓	No PCB 6/8/11							
0636	CX	XE	1						✓												✓
0636	CX	XF	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11 Time Collected 1318
Core ID #: 0636	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 #																			
0636	DX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/8/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11	Time Collected 1326	
Core ID #: 0636	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 #																			
0636	EX	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: Robert Posner / (Print and Sign) **Date:** 6/8/11

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/30/11	**Time Collected** 1342	
Core ID #: 0637	**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 #																			
0637	AX	XA	1	✓	✓	✓	✓	✓													
0637	AX	XF	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

rev 4/4/11

Survey Unit ID#: 18 17	Date Collected 3/30/11	Time Collected 1347
Core ID #: 0657	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 #																			
0657	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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

R&R 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected**	3/30/11	**Time Collected** 1355
Core ID #: 0637	**Core Segment ID #:** 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 #																			
0637	CX	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: Robert Posner / (Print and Sign) **Date:** 3/30/11

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

rec'd 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/30/11	**Time Collected**	1357
Core ID #: 0637	**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 #																			
0637	DX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

RB 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/31/11	**Time Collected** 1421	
Core ID #: 0638	**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 #																			
0638	AX	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11	**Time Collected**	1454
Core ID #: 0638	**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 #																			
0638	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~16~~ 17	**Date Collected** 3/31/11	**Time Collected** 1435
Core ID #: 0638	**Core Segment ID #:** 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 #																			
0638	CX	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

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

rec 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/25/11	**Time Collected** 1042	
Core ID #: 0639	**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 #																			
0639	AX	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

dcb 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/25/11	**Time Collected** 1056
Core ID #: 0639	**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 #																			
0639	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: Robert Posner / (Print and Sign) _____ **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/25/11 Time Collected 1100
Core ID #: 0639	Core Segment ID #: 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 #																			
0639	CX	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: Robert Posner / (Print and Sign) Date: 3/25/11

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

Rec 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/25/11	**Time Collected** 1109
Core ID #: 0639	**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 #																			
0639	DX	XA	1	✓	✓	✓	✓	✓	✓												
0639	DX	XF	1						✓												✓
0639	DX	XQ	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: Robert Posner I (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

Rec 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/25/11 **Time Collected** 1350
Core ID #: 0640	**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 #																			
0640	AX	XA	1	✓	✓																
0640	AX	XG	1											✓	✓	✓	✓				✓
0640	AX	XH	1									✓ 3/25/11	✓	✓	✓	✓		✓	✓		✓

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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/17	**Date Collected** 3/25/11	**Time Collected**	1354
Core ID #: 0640	**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 #																			
0640	BX	XA	1	✓	✓																
0640	BX	XG	1														✓				✓
0640	BX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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#: 18 17	Date Collected 3/25/11	Time Collected	1358
Core ID #: 0640	Core Segment ID #: 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 #																			
0640	CX	XA	1	✓	✓																
0640	CX	XG	1											✓			✓				✓
0640	CX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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#: 18 (7 / 6/4/14)	**Date Collected** 3/25/11	**Time Collected** 1412	
Core ID #: 0640	**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 #																			
0640	DX	XA	1	✓	✓																
0640	DX	XG	1														✓				✓
0640	DX	XH	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

QCF 4/4/11

Survey Unit ID#: ~~18~~ 17	Date Collected 3/24/11 Time Collected 1510
Core ID #: 0641	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 #																			
0641	AX	XA	1	✓	✓	✓	✓	✓													
0641	AX	XF	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: Robert Posner / (Print and Sign) Date: 3/24/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

R6 4/4/11

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 1517
Core ID #: 0641	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 #																			
0641	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: Robert Posner / (Print and Sign) Date: 3/24/11

NFS File Classification: DCM-23-05-02

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 1522
Core ID #: 0641	Core Segment ID #: 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 #																			
0641	CX	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: Robert Posner / (Print and Sign) Date: 3/24/11

NFS File Classification: DCM-23-05-02

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#: ~~18~~ 17 (16) 4/4/14	Date Collected 3/30/11 Time Collected 1421
Core ID #: 0642	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 #																			
0642	AX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

NGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/30/11 **Time Collected** 1426
Core ID #: 0642	**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 #																			
0642	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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#: 18 (17)	**Date Collected** 3/30/11 **Time Collected** 1430
Core ID #: 0642	**Core Segment ID #:** 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 #																			
0642	CX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/30/11	**Time Collected** 1435
Core ID #: 0642	**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 #																			
0642	DX	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: Robert Posner / _____ **Date:** 3/30/11
(Print and Sign)

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#: 18 17	**Date Collected** 4/1/11	**Time Collected**	1039
Core ID #: 0643	**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 #																			
0643	AX	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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

rec 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 4/1/11	**Time Collected**	1045
Core ID #: 0643	**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 #																			
0643	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: Robert Posner / _____ **Date:** 4/1/11
(Print and Sign)

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

R61 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11 **Time Collected** 1347
Core ID #: C644	**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 #																			
C644	AX	XA	1	✓	✓	✓	✓	✓													
C644	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

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

0644 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11	**Time Collected** 1354	
Core ID #: 0644	**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 #																			
~~0644~~	~~3/31/11~~	~~XA~~ 0644 3/31/11																			
0644	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

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#: 18 17	**Date Collected** 3/31/11	**Time Collected** 1358	
Core ID #: 0644	**Core Segment ID #:** 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 Tetra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0644	CX	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: Robert Posner / _____ **Date:** 3/31/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

4/4/11 RGP

Survey Unit ID#: ~~18~~ 17	Date Collected 3/31/11 Time Collected 1458
Core ID #: 0645	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 #																			
0645	AX	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: Robert Posner / (Print and Sign) Date: 3/31/11

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#: 1817	**Date Collected** 3/31/11 **Time Collected** 1510
Core ID #: 0645	**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 #																			
0645	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11 **Time Collected** 1515
Core ID #: 0645	**Core Segment ID #:** 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 #																			
0645	CX	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: Robert Posner / (Print and Sign) **Date:** 3/31/11

NFS File Classification: DCM-23-05-02

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#: 18/7	Date Collected 3/31/11	Time Collected 1518	
Core ID #: C645	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 #																			
0645	DX	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: Robert Posner / (Print and Sign) Date: 3/31/11

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/31/11 **Time Collected** 1520
Core ID #: 0645	**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 #																			
0645	EX	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: Robert Posner / **Date:** 3/31/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 1414
Core ID #: 0646	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 #																			
0646	AX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

R68 4/14/11

Survey Unit ID#: 18 17	**Date Collected** 3/24/11	**Time Collected**	1420
Core ID #: 0646	**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 #																				
0646	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: Robert Posner / (Print and Sign) Date: 3/24/11

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

4/4/11 RCP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 1424
Core ID #: 0646	**Core Segment ID #:** 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 #																			
0646	CX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/17	**Date Collected** 3/24/11 **Time Collected** 1430
Core ID #: 0646	**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 #																			
0646	DX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/9/11 **Time Collected** 0913
Core ID #: 0647	**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 #																			
0647	AX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/9/11 Time Collected 0918
Core ID #: 0647	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 #																			
0647	BX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0647	BX	XE	1										✓								
0647	BX	XF	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: Robert Posner / (Print and Sign) Date: 6/9/11

NFS File Classification: DCM-23-05-02

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/25/11 Time Collected 1434
Core ID #: C648	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 #																			
C648	AX	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: Robert Posner I (Print and Sign) **Date:** 3/25/11

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/25/11 **Time Collected** 1440
Core ID #: 0648	**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 #																			
0648	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/25/11 **Time Collected** 1446
Core ID #: 0648	**Core Segment ID #:** 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 #																			
0648	CX	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 48 17	**Date Collected** 3/25/11	**Time Collected** 1450	
Core ID #: 0648	**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: ☒ NGP 3/25/11 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)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0648	DX	XA	1	✓	✓	✓	✓	✓													
0648	DX	XF							✓												✓

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: Robert Posner / (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

4/4/11 GP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 1532
Core ID #: 0649	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 #																			
0649	AX	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: Robert Posner / (Print and Sign) Date: 3/24/11

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/24/11	**Time Collected**	1537
Core ID #: 0649	**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 #																			
0649	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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

Rec'd 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11	Time Collected 1542	
Core ID #: 0649	Core Segment ID #: 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 #																			
0649	CX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

RLP
4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~16~~ 17	**Date Collected** 3/24/11 **Time Collected** 1546
Core ID #: 0649	**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 #																			
0649	DX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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

Rev 1 9/1/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/17	**Date Collected** 3/25/11 **Time Collected** 0856
Core ID #: 0650	**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 #																			
0650	AX	XA	1	✓	✓																
0650	AX	XG	1														✓				✓
0650	AX	XH	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/25/11 **Time Collected** 0900
Core ID #: 0650	**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 #																			
0650	BX	XA	1	✓	✓																
0650	BX	X6	1													✓					✓
0650	BX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

4/4/11 R6

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/25/11 **Time Collected** 0904
Core ID #: 0650	**Core Segment ID #:** 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 #																			
0650	CX	XA	1	✓	✓																
0650	CX	X6	1														✓				✓
0650	CX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

RGI 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/25/11 Time Collected 0926
Core ID #: 0650	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 #																			
0650	DX	XA	1	✓	✓																
0650	DX	X6	1														✓				✓
0650	DX	XH	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

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

4/4/11 A61

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/25/11	**Time Collected**	0940
Core ID #: 0650	**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 #																			
0650	EX	XA	1	✓	✓																
0650	EX	XG	1														✓				✓
0650	EX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

4/4/11 16P

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11	**Time Collected**	1349
Core ID #: 0651	**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 #																			
0651	AX	XA	1	✓	✓	✓	✓	✓													
0651	AX	XF	1						✓												✓
0651	AX	XQ	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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

4/4/11
R6P

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 1354
Core ID #: 0651	**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 #																			
0651	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 1400
Core ID #: 0651	Core Segment ID #: 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; 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 #																			
0651	CX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

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

4/4/11 RGL

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/24/11 **Time Collected** 1043 1054
Core ID #: 0652	**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 #																			
0652	AX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

4/4/14 RB

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/14	Time Collected	1057
Core ID #: 0652	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 #																			
0652	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: Robert Posner / _____ **Date:** 3/24/14
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~16~~ 17	**Date Collected** 3/24/11 **Time Collected** 1103
Core ID #: 0652	**Core Segment ID #:** 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 #																			
0652	CX	XA	1	✓	✓	✓	✓	✓													
0652	CX	XF	1						✓												✓
~~0652~~	CX	RGP 3/24/11																			

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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

4/4/14 Rev

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11	**Time Collected** 0957	
Core ID #: 0653	**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 #																			
0653	AX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11	Time Collected 1000	
Core ID #: 0653	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 #																			
0653	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: Robert Posner I (Print and Sign) **Date:** 3/24/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 1004
Core ID #: 0653	**Core Segment ID #:** 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 #																			
0653	CX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 1005
Core ID #: 0653	**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 #																			
0653	DX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	Date Collected 3/24/11 Time Collected 0905
Core ID #: 0654	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 #																			
0654	AX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	**Date Collected** 3/24/11	**Time Collected** 0908	
Core ID #: 0654	**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 #																			
0654	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

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

4/4/11 RCP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 0911
Core ID #: 0654	**Core Segment ID #:** 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 #																			
0654	CX	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: Robert Posner / (Print and Sign) **Date:** 3/24/11

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

R6R 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/29/11	**Time Collected** 0926
Core ID #: 0654	**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 #																			
0654	DX	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: Robert Posner / _____ **Date:** 3/29/11
(Print and Sign)

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

4/4/11
R6F

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11	**Time Collected** 0917	
Core ID #: 0654	**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 #																			
0654	EX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

BGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/24/11 Time Collected 0836
Core ID #: 0655	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 #																			
0655	AX	XA	1	✓	✓	✓	✓	✓													
0655	AX	XF	1						✓												✓
0655	AX	XQ	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: Robert Posner / (Print and Sign) Date: 3/19/11

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

4/4/11 RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/24/11 **Time Collected** 0844
Core ID #: 0655	**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 #																			
0655	DX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/24/11	**Time Collected** 0846	
Core ID #: 0655	**Core Segment ID #:** 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 #																			
0655	CX	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: Robert Posner / _____ **Date:** 3/24/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

qcp 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/23/11 Time Collected 0849
Core ID #: 0656	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 #																			
0656	AX	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

Pg 4 of 4

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11 Time Collected 0854
Core ID #: 0656	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 #																			
0656	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	Date Collected 3/23/11 Time Collected 0900
Core ID #: 0656	Core Segment ID #: 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 #																			
0656	CX	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: Robert Posner / (Print and Sign) Date: 3/23/11

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

4/4/11
R6F

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/22/11 **Time Collected** 15:50
Core ID #: 0657	**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 #																			
0657	AX	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: Robert Posner / _____ **Date:** 3/22/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

4/4/11 RG

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	Date Collected 3/22/11 Time Collected 15:56
Core ID #: 0657	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 #																			
0657	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: Robert Posner / (Print and Sign) Date: 3/22/11

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

4/4/11
RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/22/11	Time Collected 15:58	
Core ID #: 0657	Core Segment ID #: 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 #																			
0657	CX	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: Robert Posner / (Print and Sign) Date: 3/22/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/17	**Date Collected** 3/22/11	**Time Collected** 1602	
Core ID #: 0657	**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 #																			
0657	DX	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: Robert Posner / (Print and Sign) **Date:** 3/22/11

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

RSF 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/7	Date Collected 3/22/11 Time Collected 1605
Core ID #: 0657	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 #																			
0657	EX	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: Robert Posner / (Print and Sign) **Date:** 3/22/11

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#: 18 17 16 6/9/11	Date Collected 6/9/11 Time Collected 1308
Core ID #: 0658	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 #																			
0658	AX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/9/11 **Time Collected** 1312
Core ID #: 0658	**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 #																			
0658	BX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0658	BX	XE	1										✓								✓
0658	BX	XF	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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

RLP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 3/23/11 Time Collected 1520
Core ID #: 0659	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 #																			
0659	AX	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: Robert Posner / (Print and Sign) Date: 3/23/11

NFS File Classification: DCM-23-05-02

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11 Time Collected 1525
Core ID #: 0659	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 #																			
0659	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: Robert Posner I _____ **Date:** 3/23/11
(Print and Sign)

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

RGP 4/4/11

Survey Unit ID#: 18 17	**Date Collected** 3/23/11 **Time Collected** 1527
Core ID #: 0659	**Core Segment ID #:** 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 #																			
0659	CX	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: Robert Posner / (Print and Sign) **Date:** 3/23/11

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

RGI 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	**Date Collected** 3/25/11 **Time Collected** 1004
Core ID #: 0660	**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 #																			
0660	AX	XA	1	✓	✓																
0660	AX	XG	1														✓				✓
0660	AX	XH	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: Robert Posner / _____ **Date:** 3/25/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/25/11 **Time Collected** 1008
Core ID #: 0660	**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 #																			
0660	BX	XA	1	✓	✓									✓	✓	✓			✓		✓
0660	BX	XG	1														✓				✓
0660	BX	XH	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	**Date Collected** 3/25/11 **Time Collected** 1014
Core ID #: 0660	**Core Segment ID #:** 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 #																			
0660	CX	XA	1	✓	✓																
0660	CX	XG	1														✓				✓
0660	CX	XF	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/25/11 Time Collected 1023
Core ID #: 0660	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 #																			
0660	DX	XA	1	✓	✓																
0660	DX	XG	1														J				✓
0660	DX	XK	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: Robert Posner / (Print and Sign) **Date:** 3/25/11

NFS File Classification: DCM-23-05-02

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

RGF 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18/17	**Date Collected** 3/24/11	**Time Collected**	1435
Core ID #: 0661	**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: ☒ RGF 4/4/11 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)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0661	AX	XA	1	✓	✓	✓	✓	✓													
0661	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 3/23/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 1817	Date Collected 3/23/11 Time Collected 1438
Core ID #: 0661	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 #																			
0661	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: Robert Posner / (Print and Sign) Date: 3/23/11

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	Date Collected 3/23/11 Time Collected 1449
Core ID #: 0661	Core Segment ID #: 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 #																			
0661	CX	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: Robert Posner / _____ Date: 3/23/11
(Print and Sign)

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

R6F 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/23/11 **Time Collected** 1300
Core ID #: 0662	**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 #																			
0662	AX	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/32/11 **Time Collected** 1306
Core ID #: 0662	**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 #																			
0662	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: Robert Posner / (Print and Sign) **Date:** 3/23/11

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#: ~~18~~ 17 4/4/11	Date Collected 3/23/11	Time Collected	1308
Core ID #: 0662	Core Segment ID #: 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 #																			
0662	CX	XA	1	✓	✓	✓	✓	✓													
0662	CX	XF	1						✓												✓
0662	CX	XQ	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

R6P 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11 Time Collected 1315
Core ID #: 0662	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 #																			
0662	DX	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: Robert Posner / _____ Date: 3/23/11
(Print and Sign)

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18 17	**Date Collected** 3/23/11 **Time Collected** 1020
Core ID #: 0663	**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 #																			
0663	AX	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: Robert Posner / (Print and Sign) **Date:** 3/23/11

NFS File Classification: DCM-23-05-02

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

4/4/11
RGP

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~48~~ 17	Date Collected 3/23/11 Time Collected 1024
Core ID #: 0663	Core Segment ID #: ~~3/27~~ BX RGP 4/4/11

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 #																			
0663	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: Robert Posner / (Print and Sign) Date: 3/23/11

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

RG1 4/14/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/23/11	**Time Collected** 1026
Core ID #: 0663	**Core Segment ID #:** 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 #																			
0663	CX	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

RGP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11 Time Collected 1034
Core ID #: 0663	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 #																			
0663	DX	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: Robert Posner / (Print and Sign) Date: 3/23/11

NFS File Classification: DCM-23-05-02

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

RBP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11	Time Collected	1140
Core ID #: 0663	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 #																			
0663	EX	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: Robert Posner / (Print and Sign) Date: 3/23/11

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

RCP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	Date Collected 3/23/11 Time Collected 0940
Core ID #: 0664	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 #																			
0664	AX	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: Robert Posner / (Print and Sign) Date: 3/23/11

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

RGI 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/23/11	**Time Collected** 0944	
Core ID #: 0664	**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 #																			
0664	BX	XA	1	✓	✓	✓	✓	✓													
0664	BX	XF	1						✓												✓
0664	BX	XQ	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

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

pcl 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/23/11	**Time Collected** 0946	
Core ID #: 0664	**Core Segment ID #:** 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 #																			
0664	CX	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: Robert Posner / _____ **Date:** 3/23/11
(Print and Sign)

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

RBP 4/4/11

FIELD SAMPLE DATA SHEET

Survey Unit ID#: ~~18~~ 17	**Date Collected** 3/23/11 **Time Collected** 0957
Core ID #: 0664	**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 #																			
0664	DX	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: Robert Posner / (Print and Sign) **Date:** 3/23/11

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

1341 RGP 6/8/11

Survey Unit ID#: 17	**Date Collected** 6/8/11 **Time Collected** 1341
Core ID #: 0665	**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 ☒ NO RGP 6/8/11

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (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 #																			
0665	AX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0665	~~BX~~ AX	XF	1						✓												✓
	RGP 6/8/11																				

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: Robert Posner / (Print and Sign) **Date:** 6/8/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11 Time Collected 1415
Core ID #: 665	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 #																			
0665	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/8/11	Time Collected 1418
Core ID #: 0665	Core Segment ID #: 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 #																				
0665	Cx	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 4/5/11 **Time Collected** 1120
Core ID #: 0666	**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 #																			
0666	AX	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: Robert Posner / (Print and Sign) **Date:** 4/5/11

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#: 17	**Date Collected** 4/5/11 **Time Collected** 1126
Core ID #: 0666	**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 #																			
0666	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: Robert Posner / _____ **Date:** 4/5/11
(Print and Sign)

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#: 17	**Date Collected** 4/5/11 **Time Collected** 1131
Core ID #: D666	**Core Segment ID #:** 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 #																			
D666	CX	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: Robert Posner / (Print and Sign) **Date:** 4/5/11

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#: 17	**Date Collected** 4/5/11	**Time Collected** 1140	
Core ID #: 0666	**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: ☒ 4/5/11 1140 Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0666	DX	XA	1	✓	✓	✓	✓	✓	✓												
0666	DX	XF	1						✓												✓
0666	DX	XQ	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: Robert Posner / _____ (Print and Sign) **Date:** 4/5/11

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#: 17	**Date Collected** 6/14/11 **Time Collected** 1325
Core ID #: 0667	**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 #																			
0667	AX	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

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#: 17	Date Collected 6/14/11 Time Collected 1337
Core ID #: 0667	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 #																			
0667	BX	XA	1	✓	✓	✓	✓	✓													
0667	BX	XF	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: Robert Posner / (Print and Sign) Date: 6/14/11

NFS File Classification: DCM-23-05-02

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#: 17	**Date Collected** 6/14/11	**Time Collected** 1342	
Core ID #: 0667	**Core Segment ID #:** 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 #																			
0667	CX	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: Robert Posner / _____ **Date:** 6/14/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/9/11 Time Collected 0842
Core ID #: 0668	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 #																			
0668	AX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 17	Date Collected 6/9/11 Time Collected 0817
Core ID #: 0668	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 #																			
0668	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: Robert Posner / (Print and Sign) Date: 6/9/11

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#: 17	Date Collected 6/9/11 Time Collected 0850
Core ID #: 0668	Core Segment ID #: 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 #																			
0668	CX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 8 17	**Date Collected** 8/11/11	**Time Collected**	0907
Core ID #: A614	**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 #										
A614	AX	XA	1	X	X							

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: Robert Posner/ _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 6 (7 12 16 17 18)	Date Collected 8/11/11	Time Collected 0905
Core ID #: A614	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 #										
A614	BX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 617 8/11/11	Date Collected 8/11/11 Time Collected 0906
Core ID #: A614	Core Segment ID #: 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 #										
A614	CX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 617	**Date Collected** 8/11/11 **Time Collected** 0916
Core ID #: A614	**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 #																		
A614	DX	XA	1	X	X	X	X	X												
A614	DX	XF							X											

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 0927
Core ID #: A614	**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 #**										
A614	EX	XA	1	X	X							

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 0930
Core ID #: A614	**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 #**										
A614	FX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/11	Time Collected 0940
Core ID #: A614	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 #										
A614	GX	XA	1	X	X							

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: Robert Posner / **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#:17	**Date Collected** 8/11/11	**Time Collected** 0064
Core ID #: A614	**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 #**										
A614	HX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 1050
Core ID #: B614	**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 #										
B614	AX	XA	1	X	X							

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: Robert Posner/ _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11 **Time Collected** 1033
Core ID #: B614	**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 #										
B614	BX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected**	0955
Core ID #: B614	**Core Segment ID #:** 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 #**										
B614	CX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 0934
Core ID #: B614	**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 #**										
B614	DX	XA	1	X	X							

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 0940
Core ID #: B614	**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 #**											
B614	EX	XA	1	X	X								

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected**	1107
Core ID #: C614	**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 #**										
C614	AX	XA	1	X	X							

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: Robert Posner/ _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected 8/11/11**	**Time Collected** [illegible]
Core ID #: C614	**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 #**										
C614	BX	XA	1	X	X							

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/11	Time Collected 1113
Core ID #: C614	Core Segment ID #: 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 #																		
C614	CX	XA	1	X	X	X	X	X												
~~C614~~	~~CX~~	~~XD~~	1					X			PGI	8/11/11								
C614	CX	XF	1					X												X

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: Robert Posner / _____ **Date:** 8/11/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/11	Time Collected 1117
Core ID #: C614	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 #										
C614	DX	XA	1	X	X							

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/11	**Time Collected** 1[illegible]2
Core ID #: C614	**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 #**										
C614	EX	XA	1	X	X							

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: Robert Posner / **Date:** 8/11/11

NFS File Classification: DCM-23-05-02

MACTEC Development Corp.
751 Horizon Ct. Suite 104
Grand Junction, CO 81506
Phone 970.243.2861
FXX 970.256.7358

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/2011	Time Collected 1326
Core ID #: D614	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 #																
D614	AX	XA	1	X	X	X	X	X										
D614	AX	XG	1												X			X
D614	AX	XH	1									X	X	X		X	X	X

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: Robert Posner/ _____ **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/2011	Time Collected 1328
Core ID #: D614	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 #										
D614	BX	XA	1	X	X							
D614	BX	XG	1								X	X
D614	BX	XH	1							X X X	X X	X

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: Robert Posner / **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/2011	**Time Collected** 1335
Core ID #: D614	**Core Segment ID #:** 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 #**																
D614	CX	XA	1	X	X													
D614	CX	XG	1												X			X
D614	CX	XH	1								X	X	X		X	X		X

Knowingly or willfully falsifying or concealing a material fact on this form, or making false, ficitious or fraudulent statements or representations herein could constitute a felony punishable under Federal Statutes

Field Sampler: Robert Posner / **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/2011	**Time Collected** 1352
Core ID #: D614	**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 #										
D614	DX	XA	1	X	X	X						
D614	DX	XG	1								X	X
D614	DX	XH	1								X	X
D614	DX	XF	1				X					Y

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: Robert Posner / **Date:** 8/11/2011

NFS File Classification: DCM-23-05-02

MACTEC

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/2011	**Time Collected** 1356
Core ID #: D614	**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 #**																
D614	EX	XA	1	X	X													
D614	EX	XG	1												X			X
D614	EX	XH	1									X	X	X		X	X	X

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: Robert Posner / **Date:** 8/11/2011

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	Date Collected 8/11/2011	Time Collected 1400
Core ID #: D614	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 #										
D614	FX	XA	1	X	X							
D614	FX	XG	1								X	X
D614	FX	XH	1							X X X	X X	X

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: Robert Posner / _____ **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/2011	**Time Collected** 1104
Core ID #: D614	**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 #**															
D614	GX	XA	1	X	X												
D614	GX	XG	1												X		X
D614	GX	XH	1									X	X	X		X	X	X

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: Robert Posner / **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

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

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17	**Date Collected** 8/11/2011	**Time Collected** 1408
Core ID #: D614	**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 #																
D614	HX	XA	1	X	X													
D614	HX	XG	1												X			X
D614	HX	XH	1									X	X	X		X	X	X

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: Robert Posner / **Date:** 8/11/2011
(Print and Sign)

NFS File Classification: DCM-23-05-02

Appendix E.7

Field Sample Data Sheets

Survey Unit 18

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#: 18	**Date Collected** 12/9/10 **Time Collected** 15:40
Core ID #: 0669	**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 #																			
0669	AX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 15:43
Core ID #: 0669	**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 #																			
0669	Bx	XA	1	✓	✓	✓	✓	✓													
0669	Bx	XF	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 15:46
Core ID #: 0669	**Core Segment ID #:** 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 #																			
0669	CX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

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

RLP 12/9/10

Survey Unit ID#: 18	**Date Collected** 12/9/10	**Time Collected** 15:58 15:55	
Core ID #: 0669	**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: ☒ NO Pu 12/9/10 Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0669	DX	XA	1	✓	✓	✓	✓	✓													
0669	DX	XF	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

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#: 18	**Date Collected** 12/9/10	**Time Collected**	15:58
Core ID #: 0669	**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 #																			
0669	EX	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: Robert Posner (Print and Sign) Date: 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 16:04
Core ID #: 0669	**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 #																			
0669	FX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 16:12
Core ID #: 0669	**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 #																			
0669	GX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

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#: 18	**Date Collected** 12/9/10 **Time Collected** 16:15
Core ID #: 0669	**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 #																			
0669	HX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 16:19
Core ID #: 0669	**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 #																			
0669	IX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 16:22
Core ID #: 0669	**Core Segment ID #:** 3X

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

SWMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0669	3X	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1012
Core ID #: 0670	**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: ☒ 12/3/10 Full-Suite: ☒

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0670	AX	XA	1	✓	✓	✓	✓	✓		✓	✓										
0670	AX	XF	1						✓												1
0670	AX	XG	1														✓				1
0670	AX	XH	1											✓	✓	✓		✓	✓		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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1016
Core ID #: 0670	**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: ☒ No Ref 14340

Regulatory Confirmation Sample: ☐ Gamma Only: ☒ Full-Suite: ☒ No Ref 14340

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon):Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0670	BX	XA	1	✓	✓																
0670	BX	XG	1														✓				1
0670	BX	XH	1											✓	✓	✓		✓	✓		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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1024
Core ID #: 0670	**Core Segment ID #:** 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: ☒ ND for 241Am

Regulatory Confirmation Sample: ☐

Gamma Only: ☒

Full-Suite: ☒ ND for 241Am

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grnd)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (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 #																		
0670	CX	XA	1	✓	✓															
0670	CX	XG	1													✓				1
0670	CX	XH	1											J	J	J		J	J	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1640
Core ID #: 0670	**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: ☑ per WP

Regulatory Confirmation Sample: ☐ | Gamma Only: ☒ | Full-Suite: ☑ per WP

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846: 6010C (Paragon): Arsenic, Beryllium	SW 846: 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0670	DX	XA	1	✓	✓																
0670	DX	XG	1													J					1
0670	DX	XH	1											✓	✓	✓		J	✓		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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1044
Core ID #: 0670	**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 #																			
0670	EX	XA	1	✓	✓																
0670	EX	XG															✓				
0670	EX	XH												✓	✓	✓		✓	✓		

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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1047
Core ID #: 0670	**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 #																			
0670	FX	XA	1	✓	✓																
0670	FX	XG	1														✓				1
0670	FX	XH	1											✓	J	J		J	J		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: Robert Posner I (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1058
Core ID #: 0670	**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 #																			
0690	GX	XA	1	✓	✓																
0690	GX	XG															✓				1
0690	~~0~~GX Rec'd 12/3/10	XH												✓	✓	✓		✓	✓		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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/3/2010	Time Collected 1104
Core ID #: 0670	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 #																			
0670	HX	XA	1	✓	✓																
0670	HX	XG															✓				1
0670	HX	XH												✓	✓	✓		✓	✓		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: Robert Posner / (Print and Sign) Date: 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1112
Core ID #: 0670	**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 #																			
0670	IX	XA	1	✓	✓																
0670	IX	XG															✓				1
0670	IX	XH												✓	✓	✓		✓	✓		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: Robert Posner / (Print and Sign) Date: 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1127
Core ID #: 0670	**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: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0670	JX	XA	1	✓	✓																
0670	JX	XG															✓				—
0670	JX	XH												✓	✓	✓		✓	✓		—

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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0900
Core ID #: 0671	**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 #																			
0671	Ax	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0903
Core ID #: 0671	**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 #																			
0671	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0914
Core ID #: 0671	**Core Segment ID #:** 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: ☒ X Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846; 6010C (Paragon): Arsenic, Beryllium	SW-846; 8270C (Paragon): Semi-Volatile Organics	SW-846; 8260B (Paragon): VOCs by Terra Core	SW-846; 7196A (Paragon): Hexavalent Chromium	SW-846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0671	CX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0919
Core ID #: 0671	**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 #																			
0671	DX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0927
Core ID #: 0671	**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 #																			
0671	EX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0926
Core ID #: 0671	**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 #																			
0671	FX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0935
Core ID #: 0671	**Core Segment ID #:** GIX

Site: NFS North Site 1205 Banner 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 #																			
0671	GIX	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: Robert Posner I _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010	**Time Collected** 9:50
Core ID #: 0671	**Core Segment ID #:** 1-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: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0671	1X	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 0955
Core ID #: 0671	**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 #																			
0671	IX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1003
Core ID #: 0671	**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: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0671	JX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010	**Time Collected**	10:36
Core ID #: 0672	**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, Arodor-1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0672	AX	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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 1110
Core ID #: 0677	**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 #																			
0677	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: Robert Posner / (Print and Sign) **Date:** 12/9/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:12
Core ID #: 0672	**Core Segment ID #:** 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 #																			
0672	CX	XA	1	✓	✓	✓	✓	✓													
0672	CX	YF	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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:25
Core ID #: 067Z	**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 #																			
067Z	DX	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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

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#: 18	**Date Collected** 12/9/2010	**Time Collected**	1:28
Core ID #: 0672	**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 #																			
0672	EX	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: Robert Posner / (Print and Sign) **Date:** 12/9/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:37
Core ID #: 0677	**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: Core #	Segment #	Sample #	NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
0677	FX	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: Robert Posner / _____ **Date:** 12/5/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:56
Core ID #: 0677	**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 #																			
0677	GX	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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:53
Core ID #: 0672	**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 #																			
0672	HX	X4	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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/2010 **Time Collected** 11:58
Core ID #: 067Z	**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 #																			
067Z	IX	XA	1	X	X																

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: Robert Posner / _____ **Date:** 12/9/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/15 **Time Collected** 1421
Core ID #: 0673	**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 #																			
0673	Ax	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: Robert Posner / _____ **Date:** 12/1/15
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/1/10	Time Collected 1454
Core ID #: 0673	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 #																			
0673	BX	XA	1	✓	✓	✓	✓	✓													
0673	BX	XF	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: Robert Posner / (Print and Sign) Date: 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/16 **Time Collected** 1438
Core ID #: 0673	**Core Segment ID #:** 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 #																			
0673	CX	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: Robert Posner / (Print and Sign) **Date:** 12/1/16

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 1445
Core ID #: 0673	**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 #																			
0673	DX	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1150
Core ID #: 0674	**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 #																			
0674	AX	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1155
Core ID #: 0674	**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, Arocior 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0674	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1200
Core ID #: 0674	**Core Segment ID #:** 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 #																			
0674	CX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 11/30/10 Time Collected 1704
Core ID #: 0674	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 #																			
0674	DX	XA	1	✓	✓	✓	✓	✓													
0674	DX	XF	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 12:11
Core ID #: 0674	**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 #																			
0674	EX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8 **Time Collected** 1135
Core ID #: 0675	**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 #																			
0675	AX	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: Robert Posner / (Print and Sign) **Date:** 12/8/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 11:37
Core ID #: 0675	**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 #																			
0675	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 1140
Core ID #: 0675	**Core Segment ID #:** 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: Core #	Segment #	Sample #	NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Arocior 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
0675	CX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 11:42
Core ID #: 0675	**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 #																			
0675	DX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

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#: 18	**Date Collected** 12/8/10 **Time Collected** 11:46
Core ID #: 0675	**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 #																			
0675	EX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/8/10	Time Collected 11:50
Core ID #: 0675	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 #																			
0675	FX	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: Robert Posner / (Print and Sign) **Date:** _____

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1350
Core ID #: 0676	**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 #																			
0676	Ax	XA	1	✓	✓	✓	✓	✓		✓	✓										
0676	Ax	XF	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1348 1354
Core ID #: C0716	**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 #																			
C0716	BX	BX XA 12/3/10 TGS	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/3/2010 Time Collected CR 12/3/10 1354 1357
Core ID #: 0676	Core Segment ID #: 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 #																			
0676	CX	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: Robert Posner / (Print and Sign) Date: 12/3/2010

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#: 18	**Date Collected** 12/3/2015 **Time Collected** 1401
Core ID #: 0676	**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 #																			
0676	DX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2015

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1403
Core ID #: 0676	**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 #																		
0676	EX	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: Robert Posner I _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1407
Core ID #: 0676	**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 #																			
0676	FX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1413
Core ID #: GA 0676	**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 #																			
0676	GX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1417
Core ID #: 0676	**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 #																			
0676	HX	XA	1	X	X																

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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1426
Core ID #: 0676	**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): VOCsby Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0676	IX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1430
Core ID #: 0676	**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: ☐ Gamma Only: ☑ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846: 8260B (Paragon): VOCs by Terra Core	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0676	JX	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: Robert Posner / _____ **Date:** 12/3/10
(Print and Sign)

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#: 18	**Date Collected** 12/9/10 **Time Collected** 13:58
Core ID #: 0677	**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 #																			
0677	AX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

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#: 18	**Date Collected** 12/9/10	**Time Collected**	14:03
Core ID #: 0677	**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 #																			
0677	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

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#: 18	**Date Collected** 12/9/10 **Time Collected** 14:06
Core ID #: 0677	**Core Segment ID #:** 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 #																			
0677	CX	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: Robert Posner / _____ **Date:** 12/9/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 14:12
Core ID #: 0677	**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 #																			
0677	DX	XA	1	✓	✓	✓	✓	✓													
0677	DX	XP	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: Robert Posner / (Print and Sign) Date: 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 14:16
Core ID #: 0677	**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 #																			
0677	EX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 14:22
Core ID #: 0677	**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 #																			
0677	FX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10	**Time Collected**	15:02
Core ID #: 0677	**Core Segment ID #:** GX		

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

SWMU Sample: ☐ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Tetra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0677	GX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/7/10 **Time Collected** 15:06
Core ID #: 0677	**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 #																			
0677	HX	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: Robert Posner / (Print and Sign) **Date:** 12/7/10

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#: 18	**Date Collected** 12/9/10	**Time Collected**	15:08
Core ID #: 0677	**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 #																			
0677	IX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

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

RGP 12/9/10

Survey Unit ID#: 18	**Date Collected** 12/9/10 **Time Collected** 13:15
Core ID #: 0677	**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: ☐ Gamma Only: ☒ Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW-846: 6010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Terra Core	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0677	JX	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

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#: 18	**Date Collected** 12/1/10	**Time Collected**	1354
Core ID #: 0678	**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 #																			
0678	AX	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 1352
Core ID #: 0678	**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 #																			
0678	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/15 **Time Collected** 14:00
Core ID #: 0678	**Core Segment ID #:** 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 #																			
0678	CX	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: Robert Posner / (Print and Sign) **Date:** 12/1/15

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#: 18	**Date Collected** 12/1/10	**Time Collected** 1408
Core ID #: 0678	**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 #																			
0678	DX	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1506
Core ID #: 0679	**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 #																			
0679	AX	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: Robert Posner I (Print and Sign) **Date:** 11/29/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1509
Core ID #: 0679	**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 #																			
0679	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10	**Time Collected** 1514
Core ID #: 0679	**Core Segment ID #:** 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 #																			
0679	CX	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1516
Core ID #: 0679	**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 #																			
0679	DX	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: Robert Posner / (Print and Sign) **Date:** 11/29/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 12:16
Core ID #: 0680	**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 #																			
0680	AX	XA	1	✓	✓	✓	✓	✓													
0680	AX	XF	1						✓												✓
0680	AX	XG															✓				✓
0680	AX	XH												✓	✓	✓		✓	✓		✓

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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 12:35
Core ID #: 0680	**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 #																				
0680	BX	XA	1	✓	✓																	
~~0680~~	~~BX~~	~~XF~~	1						✓												✓	RGI 12/14
0680	BX	XG	1															✓			✓	
0680	BX	XH	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 12:35
Core ID #: 0680	**Core Segment ID #:** 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 #																			
0680	CX	XA	1	✓	✓																
0680	CX	XG	1													✓					✓
0680	CX	XH	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/12 **Time Collected** 12:42
Core ID #: 0680	**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 #																			
0680	DX	XA	✓	✓																	
0680	DX	XG															✓				✓
0680	DX	XH												✓	✓	✓		✓	✓		✓

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: Robert Posner / _____ **Date:** 11/30/12
(Print and Sign)

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#: 18	**Date Collected** 11/30 **Time Collected** 1252
Core ID #: 0680	**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 #																			
0680	EX	XA	1	✓	✓																
0680	EX	XG	1													✓					✓
0680	EX	XH	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: Robert Posner / (Print and Sign) **Date:** 11/30/12

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1323
Core ID #: 0680 0681 (Ref 11/30/10)	**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 #																			
0681	AX	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10	**Time Collected**	1328
Core ID #: 0681	**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 #																			
0681	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1331
Core ID #: 0681	**Core Segment ID #:** 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 #																			
0681	CX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1337
Core ID #: 0681	**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 #																			
0681	DX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 13:42
Core ID #: 0681	**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 #																			
0681	EX	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1404
Core ID #: 0682	**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 #																			
0682	AX	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: Robert Posner / (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1407
Core ID #: 0682	**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 #																			
0682	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: Robert Posner I (Print and Sign) **Date:** 11/30/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1911
Core ID #: 0682	**Core Segment ID #:** 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 #																			
0682	CX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1415
Core ID #: 0682	**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 #																			
0682	DX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1432
Core ID #: 0682	**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 #																			
0682	EX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/30/10 **Time Collected** 1436
Core ID #: 0682	**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 #																			
0682	FX	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: Robert Posner / _____ **Date:** 11/30/10
(Print and Sign)

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1428
Core ID #: 0683	**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 #																			
0683	AX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1433
Core ID #: 0683	**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 #																			
0683	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: Robert Posner / (Print and Sign) **Date:** 12/6/2010

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1437
Core ID #: 0683	**Core Segment ID #:** 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 #																			
0683	CX	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: Robert Posner / _____ **Date:** 12/6/2010
(Print and Sign)

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1443
Core ID #: 0683	**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 #																			
0683	DX	XA	1	✓	✓	✓	✓	✓													
0683	DX	XF	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1456
Core ID #: 0683	**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 #																			
0683	EX	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: Robert Posner I (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1503
Core ID #: 0683	**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 #																			
0683	FX	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: Robert Posner / _____ **Date:** 12/6/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1505
Core ID #: 0683	**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 #																			
0683	GX	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: Robert Posner / (Print and Sign) **Date:** 12/6/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1510
Core ID #: 0683	**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 #																			
0683	HX	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: Robert Posner / (Print and Sign) **Date:** 12/6/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1514
Core ID #: 0683	**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 #																			
0683	IX	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: Robert Posner / _____ **Date:** 12/6/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/6/2010 **Time Collected** 1522
Core ID #: 0683	**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: ☐	Gamma Only: ☒	Full-Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0683	JX	XA	1	J	✓																

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: Robert Posner / (Print and Sign) Date: 12/6/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/7/10 **Time Collected** 12:50
Core ID #: 0684	**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 #																			
0684	Ax	XA	1	✓	✓	✓	✓	✓													
0684	Ax	XF	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: Robert Posner / _____ **Date:** 12/7/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 15:00
Core ID #: 0684	**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 #																			
0684	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: Robert Posner / (Print and Sign) Date: 12/8/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 15:05
Core ID #: 0684	**Core Segment ID #:** 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 #																			
0684	CX	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: Robert Posner / (Print and Sign) **Date:** 12/8/10

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/8/10 Time Collected 15:20
Core ID #: 0685	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 #																			
0685	AX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 15:24
Core ID #: 0685	**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 #																			
0685	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1420
Core ID #: 0686	**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 TerraCore	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0686	Ax	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1426
Core ID #: 0686	**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 #																			
0686	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: Robert Posner / _____ **Date:** 12/2/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1431
Core ID #: 0686	**Core Segment ID #:** 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 #																			
0686	CX	~~XA~~ XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0686	CX	XE	1										✓								✓
0686	CX	XF	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: Robert Posner / _____ **Date:** 12/2/2010
(Print and Sign)

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1440
Core ID #: 0686	**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 #																			
0686	DX	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10	**Time Collected** 1432	
Core ID #: 0687	**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 #																			
0687	Ax	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1437
Core ID #: 0687	**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 #																			
0687	Bx	QC1 11/29 BXA	1	✓	✓	✓	✓	✓													
0687	Bx	XF	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1440
Core ID #: 0687	**Core Segment ID #:** 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 #																			
0687	CX	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 9/25/10 11/29/10 **Time Collected** 0915
Core ID #: 0688	**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 #																			
0688	AX	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/16	**Time Collected**	0918
Core ID #: 0688	**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 #																			
0688	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: Robert Posner / (Print and Sign) **Date:** 11/29/16

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

RGP 11/29/10

Survey Unit ID#: 18	**Date Collected** 11/28/10	**Time Collected** 0910 0922
Core ID #: 0688	**Core Segment ID #:** 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 #																			
0688	CX	XA	1	✓	✓	✓	✓	✓													
0688	CX	XF	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

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#: 18	**Date Collected** 11/29/10 **Time Collected** 0928
Core ID #: 0688	**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: 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 #																			
0688	DX	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: Robert Posner I _____ **Date:** 11/29/10
(Print and Sign)

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#: 18	**Date Collected** 11/25/10 **Time Collected** 0933
Core ID #: 0688	**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 #																			
0688	Ex	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: Robert Posner / _____ **Date:** 11/25/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1466
Core ID #: 0689	**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 #																			
0689	AX	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: Robert Posner / _____ (Print and Sign) **Date:** 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1500
Core ID #: 0669	**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 #																			
0669	BX	XA	1	✓	✓	✓	✓	✓		✓	✓										
0669	BX	XF											✓								✓

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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1508
Core ID #: 0689	**Core Segment ID #:** 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 #																			
0689	CX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1516
Core ID #: 0689	**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 TerraCore	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0689	DX	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: Robert Posner / _____ **Date:** 12/3/2010
(Print and Sign)

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#: 18	Date Collected 12/3/2010 Time Collected 1531
Core ID #: 0689	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): SemiVolatile Organics	SW 846: 8260B (Paragon) VOCs by Terra Core	SW 846: 7196A (Paragon) Hexavalent Chromium	SW 846: 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0689	FX	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: Robert Posner / (Print and Sign) Date: 12/3/2010

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#: 18	**Date Collected** 12/3/2010 **Time Collected** 1605
Core ID #: 0689	**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 #																			
0689	GX	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: Robert Posner / (Print and Sign) **Date:** 12/3/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10	**Time Collected** 13:06	
Core ID #: 0690	**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)	Sr-90 by Liquid Scint (ORISE)	Sr-90 by Liquid Scint (ORISE)	Am, Pu (U, Th)	Ni-63 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Ra-226 by Gamma Spec (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW846-8260B (Paragon): VOCs by Terra Core	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
0690	AX	XA	1	✓	✓																	
0690	AX	XG	1															✓				✓
0690	AX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 15:10
Core ID #: 0690	**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)	SVOCs, Analyte List (Paragon)	SW-846: 8010C (Paragon): Arsenic, Beryllium	SW-846: 8270C (Paragon): Semi-Volatile Organics	SW-846: 8260B (Paragon): VOCs by Tem. Cone.	SW-846: 7196A (Paragon): Hexavalent Chromium	SW-846: 7470A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0690	Bx	xA	1	✓	✓																
0690	Bx	xG	1														✓				✓
0690	Bx	xH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10	**Time Collected**	1315
Core ID #: 0690	**Core Segment ID #:** 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, Pu, U, Th (ORISE)	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 8260B (Paragon): Aromatic Benzenes	SW846 8270C (Paragon): Semi Volatile Organics	SW846 8260B (Paragon): VOCs by Total Core	SW846 7196A (Paragon): Hexavalent Chromium	SW846 7421 (Paragon): Lead		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0690	CX	XA	1	✓	✓																
0690	CX	XG	1															✓			✓
0690	CX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

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#: 18	**Date Collected** 12/9/10 **Time Collected** 13:18
Core ID #: 0690	**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 (GRSE)	Am-241 (GRSE)	Pu, Th, U (GRSE)	Tc-99 by Liquid Scint (GRSE)	SOBS Aroclors (Paragon)	SW846 6010C (Paragon) Arsenic, Beryllium	SW 846 8260B (Paragon) Semi-Volatile Organics	SW-846 8260B (Paragon) VOCs, Target Cores	SW846 7196A (Paragon) Hexavalent Chromium	SW846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
0690	DX	XA	1	✓	✓																	
0690	DX	XG	1															✓				✓
0690	DX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/9/10 **Time Collected** 1352
Core ID #: 0690	**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 Confirmatory Sample: ☐ Gamma Only: ☒ Full Suite: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Am-241 by Liquid Scint (ORISE)	Pu-241 by Liquid Scint (ORISE)	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	RCRA Arsenic 7341 (Paragon)	SVOCs (Paragon): Arsenic, Barium	SVOCs (Paragon): Semi-Volatile Organics	SVOCs 8260B (Paragon): VOCs by Tetra Core	SVOCs 6010B (Paragon): Beryllium, Chromium	SVOCs 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																				
0690	EX	XA	1	✓	✓																	
0690	EX	XG	1															✓				✓
0690	EX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

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#: 18	**Date Collected** 12/9/10 **Time Collected** 13:32
Core ID #: 0690	**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	Sr-90 by Liquid Scint (ORISE)	I-129 by Liquid Scint (ORISE)	PCBs: Aroclor-1254 (Paragon)	SW-846, 6010C (Paragon): Arsenic, Beryllium	SW-846, 8270C (Paragon): Semi-Volatile Organics	SW-846, 8260B (Paragon): VOCs by Terra Core	SW-846, 7196A (Paragon): Hexavalent Chromium	SW-846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0690	FX	XA	1	✓	✓																
0690	FX	XG	1														✓				✓
0690	FX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/9/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 13:35
Core ID #: 0691	**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)	EPA 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW-846 8260B (Paragon): Volatile Organics	SW-846 7196A (Paragon): Hexavalent Chromium	SW846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
0691	AX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 13:37
Core ID #: 0691	**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)	SOPs Analyte 1251 (Paragon)	SW 846 - 6010B (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 #																			
0691	BX	XA	1	✓	✓	✓	✓	✓													
0691	BX	XF	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 1340
Core ID #: 0691	**Core Segment ID #:** 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 GC/MS	SW-846; 7196A (Paragon): Hexavalent Chromium	SW-846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0691	CX	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: Robert Posner / (Print and Sign) **Date:** 12/8/10

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#: 18	**Date Collected** 12/8/10 **Time Collected** 1254
Core ID #: 0691	**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 8/46, 6010C (Paragon): Arsenic, Beryllium	SW 8/46, 8270C (Paragon): Semi-Volatile Organics	SW 8/46, 8260B (Paragon): VOCs by Sierra Cate	SW 8/46, 7196A (Paragon): Hexavalent Chromium	SW 8/46, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0691	DX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10	**Time Collected** 14:01	
Core ID #: 0691	**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 on Terra Core	SW 846 7196A (Paragon): Hexavalent Chromium	SW 846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0691	EX	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: Robert Posner / (Print and Sign) **Date:** 12/8/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10	**Time Collected** 14:05	
Core ID #: 0691	**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	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW846 8011/8: Paragon Arsenic, Beryllium	SW846 8021/8: Paragon Semi-Volatile Organics	SW846 8260B: Paragon VOC by TCL CG	SW846 7196A (Paragon) Hexavalent Chromium	SW846 7471A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0691	FX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

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#: 18	**Date Collected** 12/2/10 **Time Collected** 1308
Core ID #: 0692	**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 Sampler ☐ | Full-Suite Radiological: ☒

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Ra-224 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE) (U, Pu, Th)	Ra-226 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Ra-226 & Ra-228 (Paragon)	SW846 6010C (Paragon): Arsenic, Beryllium	SW846 8270C (Paragon): Semi-Volatile Organics	SW846 8260B (Paragon): VOCs by GC/MS	SW846 7196A (Paragon): Hexavalent Chromium	SW846 6010C (Paragon): Uranium		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0692	AX	XA	1	✓	✓	✓	✓✓														
0692	AX	XF	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: Robert Posner / (Print and Sign) **Date:** 12/2/10

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#: 18	**Date Collected** 12/2/10 **Time Collected** 1314
Core ID #: 0692	**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 8260B (Paragon): Acetone, Benzene	SW 8270C (Paragon): Semi-Volatile Organics	SW 8260B (Paragon): VOCs in Full Core	SW 8260B (Paragon): Residual Chlorination	SW 8260B (Paragon): Headspace	SW 8260B (Paragon): Hexane		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0692	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: Robert Posner / (Print and Sign) **Date:** 12/2/10

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1327
Core ID #: 0697	**Core Segment ID #:** 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	Sr-90 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	Pu-241 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	PCBs: Aroclor 1260 (Paragon)	SW-846 6010C (Paragon): Arsenic, Beryllium	SW-846 8270C (Paragon): Semi-Volatile Organics	SW-846 7470A (Paragon): Mercury	SW-846 6010B (Paragon): Volatile Chromium	SW-846 7196A (Paragon): Hexavalent Chromium	SW-846 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																						
0697	CX	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1324
Core ID #: 0697	**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)	Isotopic Uranium (GPL SEA, Fluor, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	SW-846 6010B (Paragon) Arsenic, Beryllium	SW-846 6010B (Paragon) Lead, Metals, Cyanide	SW-846 6010B (Paragon) Mercury	SW-846 6010B (Paragon) Vanadium, Zinc, Cobalt	SW-846 7196A (Paragon) Hexavalent Chromium	SW-846 7470A (Paragon) Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0697	DX	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10 **Time Collected** 1005
Core ID #: 0693	**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 #																			
0693	AX	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: Robert Posner / _____ **Date:** 11/29/10
(Print and Sign)

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#: 18	**Date Collected** 11/21/16 **Time Collected** 1008
Core ID #: 0693	**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 #																			
0693	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: Robert Posner / _____ **Date:** 11/21/16
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 11/29/10	Time Collected 1015
Core ID #: 0693	Core Segment ID #: 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 #																			
0693	CX	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: Robert Posner / (Print and Sign) Date: 11/29/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/29/10	**Time Collected** 0720	
Core ID #: 0693	**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 #																			
0693	DX	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: Robert Posner I _____ **Date:** 11/29/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/25/10 **Time Collected** 1400
Core ID #: 0693	**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 #																			
0693	EX	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: Robert Posner / (Print and Sign) **Date:** 11/29/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/22/10 **Time Collected** 0909
Core ID #: 0694	**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 #																			
0694	AX	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: Robert Posner / _____ **Date:** 11/22/10
(Print and Sign)

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#: 18	**Date Collected** 11/22/15 **Time Collected** 0926
Core ID #: 0694	**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 #																			
0694	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: Robert Posner / _____ **Date:** 11/22/15
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/22/10 **Time Collected** 0932
Core ID #: 0694	**Core Segment ID #:** 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 #																			
0694	CX	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: Robert Posner / (Print and Sign) **Date:** 11/22/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/22/10 **Time Collected** 10:12
Core ID #: 0694	**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 #																			
0694	DX	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: Robert Posner / _____ **Date:** 11/22/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/22/10 **Time Collected** 10:50
Core ID #: 0694	**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 #																			
0694	EX	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: Robert Posner / _____ **Date:** 11/22/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/22/10	**Time Collected**	1470
Core ID #: 0694	**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 #																			
0694	FX	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: Robert Posner / (Print and Sign) **Date:** 11/22/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1444
Core ID #: 0695	**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 #																			
0695	AX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1446
Core ID #: 0695	**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 #																			
0695	BX	XA	1	✓	✓	✓	✓	✓													
0695	BX	XF	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1456
Core ID #: 0695	**Core Segment ID #:** 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 #																			
0690	CX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1500
Core ID #: 0695	**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 #																			
0695	DX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1507
Core ID #: 0695	**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 #																			
0695	EX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/16 **Time Collected** 1512
Core ID #: 0695	**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 #																			
0695	FX	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: Robert Posner / _____ **Date:** 11/19/16
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected**
Core ID #: 0695	**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 #																			
0695	GX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 11:10
Core ID #: 0696	**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 #																			
0696	AX	XA	1	✓	✓	✓	✓	✓													
			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: Robert Posner / (Print and Sign) **Date:** 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1112
Core ID #: 0696	**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 #																			
0696	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/15 **Time Collected** 11:17
Core ID #: 0696	**Core Segment ID #:** 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 #																			
0696	CX	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: Robert Posner / _____ **Date:** 11/19/15
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 11:21
Core ID #: 0696	**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 #																			
0696	DX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1128
Core ID #: 0696	**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 #																			
0696	EX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 0949
Core ID #: 0697	**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 TerraCore	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0697	AX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 0956
Core ID #: 0697	**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 #																			
0697	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/8/10	**Time Collected** 10:00
Core ID #: 0697	**Core Segment ID #:** 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 #																			
0697	CX	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: Robert Posner / _____ (Print and Sign) **Date:** 11/9/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1623
Core ID #: 0697	**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 #																			
0697	DX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 10:30
Core ID #: 0697	**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 TerraCore	SW 846: 7196A (Paragon): Hexavalent Chromium	SW 846: 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0697	EX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 10:35
Core ID #: 0697	**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 #																			
0697	FX	XA	1	✓	✓	✓	✓	✓													
0697	FX	XF	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: Robert Posner / (Print and Sign) Date: 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/8/10 **Time Collected** 12:56
Core ID #: 0698	**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 #																			
0698	AX	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

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#: 18	**Date Collected** 12/8/10 **Time Collected** 13:00
Core ID #: 0698	**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 #																			
0698	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: Robert Posner / _____ **Date:** 12/8/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected**	12/8/10	**Time Collected** 13:02
Core ID #: 0698	**Core Segment ID #:**	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 #																			
0698	CX	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: Robert Posner I (Print and Sign) **Date:** 12/8/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 12:43
Core ID #: 0699	**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 #																			
0699	AX	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/1/16	Time Collected 1147
Core ID #: 0699	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 #																			
0699	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: Robert Posner / _____ **Date:** 12/1/16
(Print and Sign)

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#: 18	**Date Collected** 12/1/10 **Time Collected** 12:50
Core ID #: 0699	**Core Segment ID #:** 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 #																			
0699	CX	XA	1	✓	✓	✓	✓	✓													
0699	CX	XF	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 12:56
Core ID #: 0699	**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 #																			
0699	DX	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 13:05
Core ID #: 0699	**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 #																			
0699	EX	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 12/1/15	Time Collected 13:05
Core ID #: 0699	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 #																			
0699	FX	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: Robert Posner / _____ Date: 12/1/15
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 13:12
Core ID #: 0699	**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 #																			
0699	GX	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

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#: 18	**Date Collected** 12/1/10 **Time Collected** 0942
Core ID #: 0700	**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 #																			
0700	AX	XA	1	✓	✓	✓	✓	✓													
0700	AX	XF	1						✓												✓
0700	AX	XG #Rd 12/1/10	1														✓				✓
0700	AX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

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#: 18	**Date Collected** 12/1/10 **Time Collected** 0950
Core ID #: 0700	**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 #																			
0700	BX	XA	1	✓	✓																
0700	BX	XG	1														✓				✓
0700	BX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

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#: 18	**Date Collected** 12/1/10 **Time Collected** 0955
Core ID #: 0700	**Core Segment ID #:** 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 #																			
0700	CX	XA	1	✓	✓																
0700	CX	XG	1														✓				✓
0700	CX	XH	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:03
Core ID #: 0700	**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 #																			
0700	DX	XA	1	✓	✓																
0700	DX	XG	1															✓			✓
0700	DX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:12
Core ID #: 0700	**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 #																			
0700	EX	XA	1	✓	✓																
0700	EX	XG	1														✓				✓
0700	EX	XH	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:26
Core ID #: 0700	**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 #																		
0700	FX	XA	1	✓	✓															
0700	FX	XG	1													✓				✓
0700	FX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:42
Core ID #: 0700	**Core Segment ID #:** ~~GX~~ RGP Fulda 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 #																			
0700	GX	XA	1	✓	✓									✓	✓	✓		✓	✓		✓
0700	GX	XG	1														✓				
0700	GX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:50
Core ID #: 0700	**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 #																			
0700	HX	XA	1	✓	✓																
0700	HX	XG	1														✓				✓
0700	HX	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/10

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#: 18	**Date Collected** 12/1/10 **Time Collected** 10:00
Core ID #: 0700	**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

SWMU Sample: ☒ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0700	1X	XA	1	✓	✓																
0700	1X	XG	1														✓				✓
0700	1X	XH	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: Robert Posner / _____ **Date:** 12/1/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/1/16 **Time Collected** 1100
Core ID #: 0700	**Core Segment ID #:** 3X

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

SWMU Sample: ☑ Full-Suite Radiological: ☐

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0700	3X	XH	1	✓	✓																
0700	3X	XG	1														✓				✓
0700	3X	XH	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: Robert Posner / (Print and Sign) **Date:** 12/1/16

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1450
Core ID #: 0701	**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 (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs, Aroclor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0701	4X	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1455
Core ID #: 0701	**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 #																			
0701	BX	XA	1	✓	✓	✓	✓	✓		✓	✓	✓									
0701	BX	XE	1										✓								✓
0701	BX	XF	1						✓				✗	12/3/10							✓

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: Robert Posner / (Print and Sign) Date: 12/2/2010

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1500
Core ID #: 0701	**Core Segment ID #:** 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 #																			
0701	CX	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: Robert Posner / _____ **Date:** 12/2/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1505
Core ID #: 0701	**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 #																			
0701	DX	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: Robert Posner / (Print and Sign) Date: 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1508
Core ID #: 0701	**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 #																			
0701	EX	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: Robert Posner / (Print and Sign) **Date:** 12/2/2010

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1512
Core ID #: 0701	**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 #																			
0701	FX	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: Robert Posner / _____ **Date:** 12/2/2010
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 12/2/2010 **Time Collected** 1530
Core ID #: 0701	**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 #																			
0761	GX	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: Robert Posner / **Date:** 12/2/2010
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1318
Core ID #: 0702	**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 #																			
0702	AX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1324
Core ID #: 0702	**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 #																			
0702	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1330
Core ID #: 0702	**Core Segment ID #:** 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 #																			
0702	CX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1333
Core ID #: 0702	**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 #																			
0702	DX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/19/10 **Time Collected** 1358
Core ID #: 0702	**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 #																			
0702	EX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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

RGP 11/22/10

Survey Unit ID#: 18	**Date Collected** 11/19/10 **Time Collected** 1343 1342
Core ID #: 0702	**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 #																			
0702	FX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/19/10	**Time Collected** 0817	
Core ID #: 0703	**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 #																			
0703	AX	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: Robert Posner / (Print and Sign) Date: 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/9/10	**Time Collected** 0821
Core ID #: 0703	**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 #																			
0703	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: Robert Posner / _____ **Date:** 11/9/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 0825
Core ID #: 0703	**Core Segment ID #:** 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 #																			
0703	CX	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: Robert Posner / (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/15/10 **Time Collected** 0830
Core ID #: HH 0703 (QA HHH)	**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 #																			
0703	DX	XA	1	✓	✓	✓	✓	✓													
0703	DX	XF	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

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#: 18	**Date Collected** 11/19/10 **Time Collected** 0836
Core ID #: 0703	**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 #																			
0703	EX	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: Robert Posner / _____ **Date:** 11/19/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 11/19/10 Time Collected 0840
Core ID #: 0703	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 #																			
0703	FX	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: Robert Posner / (Print and Sign) Date: 11/19/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0815
Core ID #: 0704	**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 #																			
0704	AX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0821
Core ID #: 0704	**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 #																			
0704	AX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10	**Time Collected** 0826	
Core ID #: 0704	**Core Segment ID #:** 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 #																			
0704	CX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0827
Core ID #: 0704	**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 #																			
0704	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0830
Core ID #: 0704	**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 #																			
0704	EX	X4	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0838
Core ID #: 0704	**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 #																			
0704	FX	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: Javid Kelley / _____ **Date:** 11/18/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0904
Core ID #: 0704	**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 #																			
0704	GX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0907
Core ID #: 0704	**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 #																			
0704	HX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 0916
Core ID #: 0704	**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 #																			
0704	IX	XA	1	✓	✓	✓	✓	✓													
0704	IX	XF	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 11/17/10	Time Collected 14:32
Core ID #: 0705	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 #																			
0705	AX	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: Javid Kelley / _____ (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 14:38
Core ID #: 0705	**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 #																			
0705	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 14:41
Core ID #: 0705	**Core Segment ID #:** 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 #																			
0705	CX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 14:52
Core ID #: 0705	**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 #																			
0705	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 14:58
Core ID #: 0705	**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 #																			
0705	EX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10	**Time Collected** 13:10	
Core ID #: 0706	**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 #																			
0706	AX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected**	11/17/10	**Time Collected** 13:30
Core ID #: 0706	**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 #																			
0706	Bx	x A	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 13:35
Core ID #: 0706	**Core Segment ID #:** 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 #																			
0706	CX	X A	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected**	11/17/16	**Time Collected** 13:38
Core ID #: 0706	**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 #																			
0706	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/16

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#: 18	**Date Collected** 11/17/10 **Time Collected** 13:40
Core ID #: 0706	**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 #																			
0706	EX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 13:46
Core ID #: 0706	**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 #																			
0706	FX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1420
Core ID #: 0707	**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 #																			
0707	AX	XA	1	✓	✓	✓	✓	✓													
0707	AX	XF	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1426
Core ID #: 0707	**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 #																			
0707	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: Javid Kelley I (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1428
Core ID #: 0707	**Core Segment ID #:** 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 #																			
0707	CX	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: Javid Kelley / _____ **Date:** 11/18/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1430
Core ID #: 0707	**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 #																			
0707	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1434
Core ID #: 0707	**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 #																			
0708	EX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1444
Core ID #: 0707	**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: Arodor 1254 (Paragon)	SW 846, 6010C (Paragon): Arsenic, Beryllium	SW 846, 8270C (Paragon): Semi-Volatile Organics	SW 846, 8260B (Paragon): VOCs by Terra Core	SW 846, 7196A (Paragon): Hexavalent Chromium	SW 846, 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0707	FX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1455
Core ID #: 0707	**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 #																			
0707	GX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18/10	**Time Collected** 1325	
Core ID #: ~~0709~~ 0708 (Col 11/18/10)	**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 #																			
0708	~~AX~~ (Col 11/18/10) AX	XA	1	✓	✓	✓	✓	✓													
0708	AX	XF	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1329
Core ID #: 0708	**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 #																			
0708	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: Javid Kelley I (Print and Sign) **Date:** 11/19/10

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1335
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

SWMU Sample: ☐ Full-Suite Radiological: ☒

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

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	Gamma Spectroscopy (ORISE)	Alpha Spectroscopy (ORISE): Am, Pu, U, Th	Pu-241 by Liquid Scint (ORISE)	Tc-99 by Liquid Scint (ORISE)	PCBs: Aroclor 1254 (Paragon)	SW 846; 6010C (Paragon): Arsenic, Beryllium	SW 846; 8270C (Paragon): Semi-Volatile Organics	SW 846; 8260B (Paragon): VOCs by Terra Core	SW 846; 7196A (Paragon): Hexavalent Chromium	SW 846; 7471A (Paragon): Mercury		Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
0708	CX	XA	1	✓	✓	✓	✓	✓													
0708	CX	XF	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: Javid Kelley I (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/18 **Time Collected** 1345
Core ID #: 0708	**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 #																			
0708	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1348
Core ID #: 0708	**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 #																			
0708	EX (Rep 11hr)	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: Javid Kelley / _____ **Date:** 11/18/10
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/18/10 **Time Collected** 1352
Core ID #: 0708	**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 #																			
0708	FX	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: Javid Kelley / (Print and Sign) **Date:** 11/18/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 10:3
Core ID #: 0709-AX-XA	**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 #																			
709	AX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 10:36
Core ID #: 0709	**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 #																			
0709	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 10:43
Core ID #: 0709	**Core Segment ID #:** 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 #																			
0709	CX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10	**Time Collected** 10:50	
Core ID #: 0709	**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 #																			
0709	DX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 10:53
Core ID #: 0709	**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 #																			
0709	EX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10	**Time Collected**	10:58
Core ID #: 0709	**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 #																			
0709	FX	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: 18	**Date Collected** 11/17/10 **Time Collected** 11:00
Core ID #: 0709	**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 #																			
0709	6X	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10	**Time Collected** 11:04	
Core ID #: 0709	**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 #																			
0709	HX	XA																			

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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 11/17/10 Time Collected 11:09
Core ID #: 0709	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 #																			
0709	IX	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: Javid Kelley / (Print and Sign) Date: 11/17/10

NFS File Classification: DCM-23-05-02

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#: 18	**Date Collected** 11/17/10 **Time Collected** 11:28
Core ID #: 0709	**Core Segment ID #:** 5K

Site: NFS North Site 1205 Banner 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 #																			
0709	5K	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: Javid Kelley / (Print and Sign) **Date:** 11/17/10

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#: ~~47~~ 18 per client	Date Collected 6/8/11 Time Collected 8:50
Core ID #: N672	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 (NaI)	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 #																			
N672	AX	XA	1	✓	✓	✓	✓	✓													
N672	AX	XF	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: Robert Posner / _____ Date: 6/8/11
(Print and Sign)

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#: 17,18 pad 4911	Date Collected 6/8/11 Time Collected 8:58
Core ID #: N672	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 (HPGe)	Gamma Spectroscopy (Passon)	Alpha Spectroscopy (Isotopic) Am, Pu, U, Th	Pu-241 by Liquid Scint (Passon)	Tc-99 by Liquid Scint (Passon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
N672	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: Robert Posner / (Print and Sign) Date: 6/8/11

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#: 17 18 RU GMA	**Date Collected** 6/8/11 **Time Collected** 09:00
Core ID #: N672	**Core Segment ID #:** 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)	[redacted]	Sample Preservation (Check If YES)
Core #	Segment #	Sample #									
N672	CX	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

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

Not data FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17 18	**Date Collected** 6/8/11	**Time Collected** 0913
Core ID #: N672	**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 #**																					
N672	DX	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: Robert Posner / (Print and Sign) **Date:** 6/8/11

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

Pol Fish FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17 18	Date Collected 6/8/11 Time Collected 0916
Core ID #: N672	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 (NaI)	Gamma Spectroscopy (Pentagon)	Alpha Spectroscopy (Pantgon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Pantgon)	Tc-99 by Liquid Scint (Pantgon)											Sample Preservation (Check if YES)
Core #	Segment #	Sample #																		
N672	EX	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: Robert Posner / (Print and Sign) **Date:** 6/8/11

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#: 17, 18	Date Collected: 6/8/11	Time Collected: 0920	
Core ID #: N672	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 #																			
N672	FX	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

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#: 18 (SU 4,6,7,12,16,17,18)	Date Collected 6/8/11 Time Collected 0958
Core ID #: N672	Core Segment ID #: GX

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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
N672	GX	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

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#: 17,18	Date Collected: 6/8/11	Time Collected: 1015	
Core ID #: N672	Core Segment ID #: HX		

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

[redacted] Full-Suite Radiological: ☐

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (FSS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
N672	HX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/8/11

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#: 17/6	Date Collected 6/8/11	Time Collected	1020
Core ID #: N672	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 #																			
N672	IX	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: Robert Posner / _____ **Date:** 6/8/11
(Print and Sign)

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#: 17 18	Date Collected 6/8/11 Time Collected 1034
Core ID #: N672	Core Segment ID #: 5X

Site: NFS North Site 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] Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
N672	5X	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: Robert Posner / (Print and Sign) **Date:** 6/8/11

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#: 18	Date Collected 6/9/11 Time Collected 1445
Core ID #: E672	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 #																			
E672	AX	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: Robert Posner / (Print and Sign) Date: 6/9/11

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#: 18	**Date Collected** 6/9/11	**Time Collected** 1420	
Core ID #: E672	**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)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
E672	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: 18	**Date Collected** 6/9/11 **Time Collected** 1426
Core ID #: 05 E672 6/9/11	**Core Segment ID #:** 05 E672 6/9/11 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 (NaI)	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 #																		
E672	CX	XA	1	✓	✓	✓	✓	✓												
E672	CX	XF	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: Robert Posner / _____ (Print and Sign) **Date:** 6/9/11

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#: 18	**Date Collected** 6/9/11 **Time Collected** 1436
Core ID #: 0 E672	**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 (NaI)	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 #									
E672	DX	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: Robert Posner / [signature] (Print and Sign) **Date:** 6/9/11

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#: 18	**Date Collected** 6/9/11	**Time Collected**	1443
Core ID #: E672	**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 #**																			
E672	EX	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: 18	**Date Collected** 6/9/11	**Time Collected**	1446
Core ID #: EC72	**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] Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**									
EC72	FX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

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#: 18	**Date Collected** 6/9/11	**Time Collected** 1532	
Core ID #: E672	**Core Segment ID #:** GX		

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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
E672	GX	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: Robert Posner / (Print and Sign) **Date:** 6/9/11

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/9/11	Time Collected 1538	
Core ID #: E672	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

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 #																					
E672	HX	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: Robert Posner / (Print and Sign) Date: 6/9/11

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 970.256.7358

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18	**Date Collected** 6/9/11	**Time Collected**	1543
Core ID #: E67	**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 #																			
E67	IX	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: Robert Posner / _____ (Print and Sign) **Date:** 6/9/11

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#: 18	**Date Collected** 6/9/11 **Time Collected** 1554
Core ID #: E672	**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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NaI-S)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
E672	3X	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: Robert Posner / _____ **Date:** 6/9/11
(Print and Sign)

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#: ~~17~~ 18 (6/10/11)	Date Collected 6/10/11 Time Collected 0920
Core ID #: W672	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 #																		
W672	AX	XA	1	✓	✓															
W672	AX	X6														✓			✓	✓
W672	AX	XH												✓	✓	✓		✓	✓	✓

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: Robert Posner / _____ (Print and Sign) **Date:** 6/10/11

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#: 18	**Date Collected** 6/10/11 **Time Collected** 0930
Core ID #: W672	**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, Tb	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
W672	BX	XA	1	✓	✓					✓	✓
W672	BX	XG	1							✓	✓
W672	BX	XH	1						✓	✓	✓
W672	BX	XF	1						✓		✓
W672	BX	XQ	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 18	**Date Collected**	**Time Collected** 0955
Core ID #: WB72	**Core Segment ID #:** 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)	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**									

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: Robert Posner / **Date:** _____
(Print and Sign)

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 970.256.7366

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18	**Date Collected** 6/10/11 **Time Collected** 1005
Core ID #: W672	**Core Segment ID #:** DX

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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
W672	DX	XA	1	✓	✓						
W672	DX	X6	1							✓	✓
W672	DX	XH	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/10/11	Time Collected 1013	
Core ID #: W672	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)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
W672	EX	XA	1	✓	✓						
W672	EX	X6	1							✓	✓
W672	EX	XH	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

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#: 18	**Date Collected** 6/10/11 **Time Collected** 1020
Core ID #: W672	**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 #**																		
W672	FX	XA	1	✓	✓															
W672	FX	X6	1													✓				✓
W672	FX	XH	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: Robert Posner / _____ (Print and Sign) **Date:** 6/10/11

NFS File Classification: DCM-23-05-02

MACTEC Development Corp.
751 Horizon Ct. Suite 104
Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7358

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18	**Date Collected** 6/10/11 **Time Collected** 1032
Core ID #: W672	**Core Segment ID #:** GX

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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NaI)	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 #																		
W672	GX	XA	1	✓	✓															
W672	GX	XG	1													✓				✓
W672	GX	XH	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

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#: 18	Date Collected 6/10/11	Time Collected 1038
Core ID #: W672	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

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 #																		
W672	HX	XA	1	✓	✓															
W672	HX	XG	1													✓				✓
W672	HX	XH	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

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#: 18	**Date Collected** 6/10/11 **Time Collected** 1043
Core ID #: W672	**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 #																		
W672	IX	XA	1	✓	✓															
W672	IX	XG	1													✓				✓
W672	IX	XH	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 18	**Date Collected** 6/10/11 **Time Collected** 1048
Core ID #: W672	**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

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]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	Sample Preservation (Check if YES)
Core #	**Segment #**	**Sample #**																				
W672	JX	XA	1	✓	✓																	
W672	JX	XG	1															✓				✓
W672	JX	XH	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/6/11	Time Collected 1219
Core ID #: 5672	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 (NaI)	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 #																		
5672	AX	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: Robert Posner / (Print and Sign) Date: 6/10/11

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#: 18	**Date Collected** 6/10/11 **Time Collected** 1123
Core ID #: 5672	**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 (FSS)	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 #**																		
5672	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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 970.256.7358

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18	**Date Collected** 6/10/11 **Time Collected** 1225
Core ID #: 5672	**Core Segment ID #:** 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 (HPGe)	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 #**																		
5672	CX	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: Robert Posner / _____ **Date:** 6/10/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/10/11	Time Collected 1132
Core ID #: 5632	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] Full-Suite Radiological: ☐

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	[redacted]	Gamma Spectroscopy (Pasqual)	Alpha Spectroscopy (Pasqual): Am, Pu, U, Th	Pu-241 by Liquid Scint (Pasqual)	Tc-99 by Liquid Scint (Pasqual)	[redacted]	Sample Preservation (Check if YES)
Core ID	Segment #	Sample #									
5632	DX	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: Robert Posner (Print and Sign) Date: 6/10/11

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/10/11 Time Collected 0935
Core ID #: SG72	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] Full-Suite Radiological: ☑

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (Isotopic - Others)	Gamma Spectroscopy (Uranium)	Alpha Spectroscopy (Isotopic): Am, Pu, U, Th	Pu-241 by Liquid Scint. (Uranium)	Tc-99 by Liquid Scint. (Uranium)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
SG72	EX	XA	1	✓	✓	✓	✓	✓			
SG72	EX	XF	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: Robert Posner / (Print and Sign) Date: 6/10/11

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#: 18	**Date Collected** 6/10/11	**Time Collected** 1240	
Core ID #: S672	**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 (NaI)	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 #**									
S672	FX	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: Robert Posner I _____ **Date:** 6/10/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

MACTEC Development Corp.
751 Horizon Ct. Suite 104
Grand Junction, CO 81506
Phone 970.243.2861
Fax 970.256.7358

FIELD SAMPLE DATA SHEET

Survey Unit ID#: 18	Date Collected 6/10/11	Time Collected 1246
Core ID #: 5672	Core Segment ID #: GX	

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

Full-Suite Radiological: ☐

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (NFS)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)												Sample Preservation (Check if YES)
Core #	Segment #	Sample #																			
5672	GX	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: Robert Posner / **Date:** 6/10/11
(Print and Sign)

NFS File Classification: DCM-23-05-02

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#: 18	Date Collected 6/6/11 Time Collected 1249
Core ID #: 5672	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

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 #																			
5672	4X	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: Robert Posner / (Print and Sign) Date: 6/6/11

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

Rad Chit FIELD SAMPLE DATA SHEET

Survey Unit ID#: 17 18	Date Collected 6/10/11 Time Collected 1304
Core ID #: S672	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 (NaI)	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 #																	
S672	IX	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: Robert Posner / (Print and Sign) **Date:** 6/10/11

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#: 17/8	**Date Collected** 6/10/11 **Time Collected** 1301
Core ID #: 5672	**Core Segment ID #:** 5X

Site: NFS North Site 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] Full-Suite Radiological: ☐

[redacted]

Unique Sample ID Number			NUMBER of CONTAINERS	Sample Preparation (Dry & Grind)	Gamma Spectroscopy (HPGE)	Gamma Spectroscopy (Paragon)	Alpha Spectroscopy (Paragon): Am, Pu, U, Th	Pu-241 by Liquid Scint (Paragon)	Tc-99 by Liquid Scint (Paragon)	[redacted]	Sample Preservation (Check if YES)
Core #	Segment #	Sample #									
5672	5X	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: Robert Posner / _____ (Print and Sign) **Date:** 6/10/11

NFS File Classification: DCM-23-05-02