

1999

SURFACE WATER SAMPLES

GAMMA SPECS

Client	Pioneer Tech. Svcs	Job Number	995486
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Samples Shipped	UPS	Federal Express	Other:
Samples Hand Delivered	Client	Core Lab Courier	Other

air bill # 6708243161

6708243264

	Yes	No	Comments
1. Chain-of-Custody present?			
2. Custody seal on shipping container?		X	
If yes, intact on shipping container?			
3. Custody seals on sample container?		X	
If yes, intact on sample containers?			
4. Samples chilled?		X	
Temperature of cooler: 4°C±2°C			
5. Samples received intact (good condition)?	X		
If volatiles required, no headspace?			
6. Correct containers used?	X		
7. Adequate sample volume provided?	X		
8. Samples preserved correctly?	X		
Circle bottle/preservative types checked.			Plain (HNO ₃) HCl H ₂ SO ₄ NaOH Other
9. Samples received within holding time?	X		
10. Agreement between COC and sample labels?	X		
11. Gamma Screen mR/Hr @ surface within Bkg?	X		CBKC

Additional Comments: _____

Sample Container (Size/Material) 12-P1000

Received and inspected by WUP Date/Time 8/18/99, 1110



CORE LABORATORIES

SAMPLE INFORMATION

Date: 09/15/99

Job Number.: 995486
Customer...: Pioneer Technical Services
Attn.....: Jodi Belanger-Woods

Project Number.....: 98000013
Customer Project ID.....: RILEY PASS - 3806
Project Description.....: general radiochemistry

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
995486-1	RP-SW-SP1	Water	08/12/1999	10:25	08/18/1999	11:10
995486-2	RP-SW-SP2	Water	08/12/1999	11:00	08/18/1999	11:10
995486-3	RP-SW-SP3	Water	08/12/1999	16:30	08/18/1999	11:10
995486-4	RP-SW-SP4	Water	08/12/1999	16:00	08/18/1999	11:10
995486-5	RP-SW-SP5	Water	08/12/1999	14:44	08/18/1999	11:10
995486-6	RP-SW-SP6	Water	08/12/1999	14:00	08/18/1999	11:10
995486-7	RP-SW-SP7	Water	08/12/1999	13:15	08/18/1999	11:10
995486-8	RP-SW-SP8	Water	08/12/1999	12:25	08/18/1999	11:10
995486-9	RP-SW-X1	Water	08/12/1999	18:00	08/18/1999	11:10
5486-10	RP-SW-I1	Water	08/12/1999	11:00	08/18/1999	11:10
995486-11	RP-SW-I5	Water	08/12/1999	11:30	08/18/1999	11:10
995486-12	RP-SW-B3	Water	08/10/1999	19:25	08/18/1999	11:10



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP1
Date Sampled.....: 08/12/1999
Time Sampled.....: 10:25
Sample Matrix.....: Water

Laboratory Sample ID: 995486-1
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	7.0		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.8		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	2.6		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	1.2		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.5		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP2
Date Sampled.....: 08/12/1999
Time Sampled.....: 11:00
Sample Matrix.....: Water

Laboratory Sample ID: 995486-2
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	10.3		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.9		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	2.2		pCi/L	09/13/99	keh
mod. HASL 300	Uranium-235, Error +/-, Total	0.9		pCi/L	09/13/99	keh
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	keh



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP3
Date Sampled.....: 08/12/1999
Time Sampled.....: 16:30
Sample Matrix.....: Water

Laboratory Sample ID: 995486-3
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	14.9		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	1.1		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.5		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.8		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP4
Date Sampled.....: 08/12/1999
Time Sampled.....: 16:00
Sample Matrix.....: Water

Laboratory Sample ID: 995486-4
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	9.6		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.9		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.8		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.8		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP5
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:44
Sample Matrix.....: Water

Laboratory Sample ID: 995486-5
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	11.5		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	1.0		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.4		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.6		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.3		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP6
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:00
Sample Matrix.....: Water

Laboratory Sample ID: 995486-6
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	7.4		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.8		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.2		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.6		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP7
Date Sampled.....: 08/12/1999
Time Sampled.....: 13:15
Sample Matrix.....: Water

Laboratory Sample ID: 995486-7
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	0.9		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.4		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.3		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.6		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-SP8
Date Sampled.....: 08/12/1999
Time Sampled.....: 12:25
Sample Matrix.....: Water

Laboratory Sample ID: 995486-8
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	0.5		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.4		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	0.3		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.3		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-X1

Date Sampled.....: 08/12/1999

Time Sampled.....: 18:00

Sample Matrix.....: Water

Laboratory Sample ID: 995486-9

Date Received.....: 08/18/1999

Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	0.1		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.3		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	0.8		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.5		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.3		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-11
Date Sampled.....: 08/12/1999
Time Sampled.....: 11:00
Sample Matrix.....: Water

Laboratory Sample ID: 995486-10
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	16.2		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	1.2		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.4		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.6		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.3		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-15
Date Sampled.....: 08/12/1999
Time Sampled.....: 11:30
Sample Matrix.....: Water

Laboratory Sample ID: 995486-11
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	17.5		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	1.2		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.7		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.8		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995486

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SW-B3
Date Sampled.....: 08/10/1999
Time Sampled.....: 19:25
Sample Matrix.....: Water

Laboratory Sample ID: 995486-12
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 903.0	Radium-226, Activity, Total	ND		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, Error +/-, Total	0.3		pCi/L	09/07/99	dmf
EPA 903.0	Radium-226, LLD, Total	0.8		pCi/L	09/07/99	dmf
mod. HASL 300	Uranium-235, Activity, Total	1.3		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, Error +/-, Total	0.7		pCi/L	09/13/99	kah
mod. HASL 300	Uranium-235, MDA, Total	0.4		pCi/L	09/13/99	kah



CORE LABORATORIES

QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- (2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86), Update I (7/92), Update II (9/94), Update IIA (8/93), Update IIB (1/95), Update III (6/97)
- (3) Standard Methods for the Examination of Water and Wastewater, 18th, 1992
- (4) EPA 600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water, August 1980
- (5) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
- (6) EPA 600/8-78-017, Microbiological Methods for Monitoring the Environment, December 1978

COMMENTS

- (1) The data in the Laboratory Test Results Report may differ from the data in the QC Report due to calculations for sample preparation and/or dilutions.
- (2) The "Time Analyzed" in the QC Report may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.
- (3) Soil and sludge samples are reported on a wet basis or on an "as received" basis unless otherwise indicated.
- (4) The data in this report are within the limits of uncertainty specified in the referenced method unless otherwise indicated.
- (5) Analyses performed by a subcontract laboratory are indicated with an asterisk and associated code in the "Technician" data field.

Subcontract Laboratories

Code

Subcontract Laboratories

Code

Core Laboratories - Anaheim, CA
Core Laboratories - Aurora, CO
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Carson, CA
Core Laboratories - Edison, NJ

AN
AU
CA
CC
CR
ED

Core Laboratories - Houston, TX (Pet)
Core Laboratories - Houston, TX (Env)
Core Laboratories - Indianapolis, IN
Core Laboratories - Lake Charles, LA
Core Laboratories - Valparaiso, IN
Other Subcontract Laboratories

HP
HR
IN
LC
VP
XX

DEFINITIONS

- (1) NC = Not Calculable due to values lower than the reporting limit.
- (2) ND = Not Detected above the reporting limit.

QC SAMPLE IDENTIFICATIONS

BLANKS

MB = Method Blank (also referred to as a preparation blank)
RB = Reagent Blank
IB = Instrument Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
HB = Holding Blank (also referred to as a storage blank)

SPIKES

MS = Matrix Spike
MSD = Matrix Spike Duplicate
PDS = Post Digestion Spike
BS = Blank Spike (also referred to as a method spike)
SS = Surrogate Spike

DUPLICATES

MSD = Matrix Spike Duplicate
MD = Method Duplicate

REFERENCE STANDARDS

CS = Calibration Standard
RS = Reference Standard (also referred to as an external reference standard)
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample

420 West First Street
Casper, WY 82601
(307) 235-5741

Number.....: 995486 Location.: 57210 Customer Job ID.....: RILEY PASS - 3806 Job Receive Date.: 08/18/99
Project Number.: 98000013 Project Description.: general radiochemistry Project Manager.: dwu
Customer.....: Pioneer Technical Services Contact.: Jodi Belanger-Woods

Sample Number.: 1 Customer Sample ID.: RP-SW-SP1

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 10:25

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48436	Plastic 1000mL	HNO3	N			

Sample Number.: 2 Customer Sample ID.: RP-SW-SP2

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 11:00

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48437	Plastic 1000mL	HNO3	N			

Sample Number.: 3 Customer Sample ID.: RP-SW-SP3

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 16:30

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48438	Plastic 1000mL	HNO3	N			

Sample Number.: 4 Customer Sample ID.: RP-SW-SP4

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 16:00

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48439	Plastic 1000mL	HNO3	N			

Sample Number.: 5 Customer Sample ID.: RP-SW-SP5

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 14:44

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48440	Plastic 1000mL	HNO3	N			

Number.....: 995486 Location.: 57210 Customer Job ID.....: RILEY PASS - 3806 Job Receive Date.: 08/18/99
Project Number.: 98000013 Project Description.: general radiochemistry Project Manager.: dwu
Customer.....: Pioneer Technical Services Contact.: Jodi Belanger-Woods

48445 Plastic 1000mL HNO3 N

Sample Number.: 11 Customer Sample ID.: RP-SW-15

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 11:30

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
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48446	Plastic 1000mL	HNO3	N			
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Sample Number.: 12 Customer Sample ID.: RP-SW-B3

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/10/99 Sample Time.: 19:25

Sample Matrix.: WATER

Containers Received.....:

Comments.....:

Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
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48447	Plastic 1000mL	HNO3	N			
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2000

SOIL AND SEDIMENT SAMPLES

GAMMA SPECS



Enviro • Test

LABORATORIES LLC.

Sample Receipt Checklist

Client	Pioneer Technical Services	Job Number	L1749
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Samples Shipped	UPS	Federal Express	Other: <u>Airborne Express</u>
Samples Hand Delivered	Client	ETL Lab Courier	Other: _____

Air Bill #: <u>6708254766</u>	# of Packages Received: _____
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	Yes	No	N/A	Comments
1. Chain - of - Custody present?	✓			If no, please fill one out.
2. Are the COC and sample labels legible?	✓			
3. Custody Seal on shipping container?		✓		
If yes, intact on shipping container?			✓	
4. Custody seals on sample containers?		✓		
If yes, intact on sample container?			✓	
5. Samples chilled?	✓			
Is temperature of cooler: $4 \pm 2^{\circ}\text{C}$?	✓			Record temp: <u>6.0°C</u>
6. Samples received intact (good condition)?	✓			
If volatiles required, any with headspace?			✓	
7. Adequate sample volume provided?	✓			
8. Samples preserved correctly?	✓			$\text{Na}_2\text{S}_2\text{O}_3$, ZnAc_2 , <u>HNO_3</u> , HCl
Circle preservative types in shipment				H_2SO_4 , NaOH , Other
9. Correct containers used?	✓			
10. Samples received within holding time?	✓			
11. Agreement between COC and sample labels?	✓			
12. Gamma Screen mR/hr @ surface within Bkg?	✓			

Additional Comments: _____

Sample Container (size/material): 10-16tr P, 19-4oz jars

Received and inspected by: LR

Date/Time: 8/5/00 1100

Enviro-Test Laboratories LLC.

Chemical Analysis Report

PIONEER TECHNICAL SERVICES

Attn: PIONEER TECHNICAL SERVICES

63 1/2 W.BROADWAY P.O. BOX 3445

BUTTE MT 59702

Date: 24 AUG 2000

Lab Work Order #: L1749

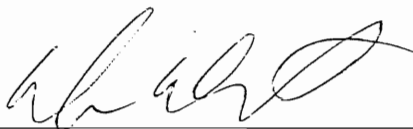
Date Received: 05 AUG 2000

Project P.O. #:

Project Reference:

Comments:

APPROVED BY: _____



Project Manager

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00

Page: 2 of 21

PO No.:

WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-K1

Date Collected: 02-AUG-00

Job Name:

Lab Sample ID: L1749-1

Sampled By: CLIENT

Matrix: 'SOIL SAMPLE'

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	154 +/- 2.3	pCi/g	0.4	11-AUG-00	DMF
Uranium-235	5.1 +/- 1.9	pCi/g	1.4	11-AUG-00	DMF



Enviro • Test
LABORATORIES LLC

420 West Street Casper, Wyoming 82601

Phone: (307) 235-5741 Fax: (307) 266-1676

Toll Free 1(800)666-0306

Limit of Liability: Although care and due diligence is taken in the performance of our services, our liability in all cases is limited to re-analysis at our expense or refunding the analytical costs charged for the work performed.

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 3 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-K2
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-2
Matrix: SOIL SAMPLE

Test Description		Result	Units of Measure	D.L.	Analyzed	By
Misc						
Gamma Spectroscopy						
Radium-226		2.7 +/- 0.4	pCi/g	0.2	11-AUG-00	DMF
Uranium-235		<0.5 +/- 0.4	pCi/g	0.5	11-AUG-00	DMF

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 4 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SE-K1
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-3
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	2.3 +/- 0.2	pCi/g	0.1	14-AUG-00	DMF
Uranium-235	<0.3 +/- 0.2	pCi/g	0.3	14-AUG-00	DMF



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Report Date: 24-AUG-00
Page: 6 of 21
PO No.:
WO NO.: L1749

Sample ID: RP-SE-K3
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-6
Matrix: SOIL SAMPLE -

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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

ATTN: PIONEER TECHNICAL SERVICES

Report Date: 24-AUG-00

Page: 7 of 21

PO No.:

WO NO.: L1749

Sample ID: RP-SE-J1

Date Collected: 02-AUG-00

Job Name:

Lab Sample ID: L1749-7

Sampled By: CLIENT

Matrix: SOIL SAMPLE

Test Description

Result

Units of
Measure

D.L.

Analyzed

By

Misc

Gamma Spectroscopy

Radium-226

3.3 +/- 0.3

pCi/g

0.2

14-AUG-00

DMF

Uranium-235

<0.4 +/- 0.3

pCi/g

0.4

14-AUG-00

DMF



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Report Date: 24-AUG-00
Page: 8 of 21
PO No.:
WO NO.: L1749

Sample ID: RP-SE-J2
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-8
Matrix: SOIL SAMPLE

ETL Enviro • Test
LABORATORIES LLC
420 West Street Casper, Wyoming 82601
307.233.6666 307.233.6677

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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 9 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-J2
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-9
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	P.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	7.7 +/- 0.4	pCi/g	0.1	15-AUG-00	DMF
Uranium-235	0.7 +/- 0.7	pCi/g	0.4	15-AUG-00	DMF



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Chemical Analysis Report

PIIONEER TECHNICAL SERVICES
11/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

ATTN: PIONEER TECHNICAL SERVICES

Report Date: 24-AUG-00

Page: 10 of 21

PO No.:

WO NO.: L1749

Sample ID: RP-SS-J1

Job Name:

Sampled By: CLIENT

Date Collected: 02-AUG-00

Lab Sample ID: L1749-10

Matrix: SOIL SAMPLE

	Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc						
	Gamma Spectroscopy					
	Radium-226	171 +/- 3.6	pCi/g	0.6	15-AUG-00	DMF
	Uranium-235	12.4 +/- 2.4	pCi/g	1.9	15-AUG-00	DMF



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Chemical Analysis Report

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1/2 W. BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 11 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SE-J3
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-11
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	1.5 +/- 0.2	pCi/g	0.1	16-AUG-00	DMF
Uranium-235	<0.3 +/- 0.2	pCi/g	0.3	16-AUG-00	DMF



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Chemical Analysis Report

**PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702**

Report Date: 24-AUG-00
Page: 12 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SE-X3
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-13
Matrix: SOIL SAMPLE -

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	0.5 +/- 0.2	pCi/g	0.2	16-AUG-00	DMF
Uranium-235	<0.5 +/- 0.1	pCi/g	0.5	16-AUG-00	DMF

Report Date: 24-AUG-00
Page: 13 of 21
PO No.:
WO NO.: L1749

Sample ID: RP-SE-L2
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-14
Matrix: SOIL SAMPLE

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Chemical Analysis Report

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Report Date: 24-AUG-00
Page: 14 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-X3
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-15
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	0.8 +/- 0.2	pCi/g	0.1	16-AUG-00	DMF
Uranium-235	<0.4 +/- 0.2	pCi/g	0.4	16-AUG-00	DMF



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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 15 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-L1
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-16
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	1.4 +/- 0.2	pCi/g	0.1	17-AUG-00	DMF
Uranium-235	<0.3 +/- 0.2	pCi/g	0.3	17-AUG-00	DMF



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Chemical Analysis Report

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P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 16 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SE-L1
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1749-17
Matrix: SOIL SAMPLE

Test Description

Result

Units of
Measure

D.L.

Analyzed

By

Misc

Gamma Spectroscopy

Radium-226	1.8 +/- 0.2	pCi/g	0.2	17-AUG-00	DMF
Uranium-235	<0.4 +/- 0.3	pCi/g	0.4	17-AUG-00	DMF

Chemical Analysis Report

NEER TECHNICAL SERVICES
1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

ATTN: PIONEER TECHNICAL SERVICES

Report Date: 24-AUG-00

Page: 17 of 21

PO No.:

WO NO.: L1749

Sample ID: RP-SE-X2

Job Name:

Sampled By: CLIENT

Date Collected: 03-AUG-00

Lab Sample ID: L1749-19

Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	2.1 +/- 0.3	pCi/g	0.3	17-AUG-00	DMF
Uranium-235	<0.9 +/- 0.2	pCi/g	0.9	17-AUG-00	DMF



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Report Date: 24-AUG-00
Page: 18 of 21
PO No.:
WO NO.: L1749

Sample ID: RP-SS-X2
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-20
Matrix: SOIL SAMPLE

Misc

Gamma Spectroscopy

Radium-226
Uranium-235

2.2 +/- 0.3
<0.5 +/- 0.3

pCi/g
pCi/g

0.2
0.5

17-AUG-00
17-AUG-00

DMF
DMF

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 19 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SS-X4
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-23
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	3.5 +/- 0.2	pCi/g	0.1	17-AUG-00	DMF
Uranium-235	0.6 +/- 0.4	pCi/g	0.4	17-AUG-00	DMF

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
1/2 W. BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 24-AUG-00
Page: 20 of 21
PO No.:
WO NO.: L1749

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SE-X4
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1749-24
Matrix: SOIL SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Gamma Spectroscopy					
Radium-226	4.7 +/- 0.3	pCi/g	0.2	17-AUG-00	DMF
Uranium-235	<0.5 +/- 0.3	pCi/g	0.5	17-AUG-00	DMF



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Methodology Reference

<u>ETL Test Code</u>	<u>Matrix</u>	<u>Test Description</u>	<u>Methodology Reference</u>
GAMMA-ALL-CA	Soil	Gamma Spectroscopy	Mod.EPA.901.1

2000

SURFACE WATER SAMPLES

GAMMA SPECS



Enviro • Test

LABORATORIES LLC.

Sample Receipt Checklist

Client	<u>Pioneer Technical Services</u>	Job Number	<u>L1749-L1754</u>
--------	-----------------------------------	------------	--------------------

Samples Shipped	UPS	Federal Express	Other: <u>Airborne Express</u>
Samples Hand Delivered	Client	ETL Lab Courier	Other:

Air Bill #: <u>6708254766</u>	# of Packages Received:
-------------------------------	-------------------------

	Yes	No	N/A	Comments
1. Chain - of - Custody present?	☒			If no, please fill one out.
2. Are the COC and sample labels legible?	☒			
3. Custody Seal on shipping container?		☒		
If yes, intact on shipping container?			☒	
4. Custody seals on sample containers?		☒		
If yes, intact on sample container?			☒	
5. Samples chilled?	☒			
Is temperature of cooler: $4 \pm 2^{\circ}\text{C}$?	☒			Record temp: <u>6.0°C</u>
6. Samples received intact (good condition)?	☒			
If volatiles required, any with headspace?			☒	
7. Adequate sample volume provided?	☒			
8. Samples preserved correctly?	☒			$\text{Na}_2\text{S}_2\text{O}_3$, ZnAc_2 , <u>HNO_3</u> , HCl
Circle preservative types in shipment				H_2SO_4 , NaOH , Other
9. Correct containers used?	☒			
10. Samples received within holding time?	☒			
11. Agreement between COC and sample labels?	☒			
12. Gamma Screen mR/hr @ surface within Bkg?	☒			

Additional Comments: _____

Sample Container (size/material): 10-16tr P, 19-4oz jars

Received and inspected by: LR

Date/Time: 8/5/00 1100

Enviro-Test Laboratories LLC.

Chemical Analysis Report

PIONEER TECHNICAL SERVICES

Date: 26 SEP 2000

Attn: PIONEER TECHNICAL SERVICES

63 1/2 W.BROADWAY P.O. BOX 3445

BUTTE MT 59702

RECEIVED

SEP - 2 2000

Lab Work Order #: L1754

Date Received: 08 AUG 2000

Project P.O. #:

Project Reference:

Comments:

APPROVED BY: _____

Dave Demorest

Project Manager



Enviro • Test
LABORATORIES LLC.

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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 26-SEP-00
Page: 2 of 7
PO No.:
WO NO.: L1754

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SW-J2
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1754-1
Matrix: WATER SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Radium-226	<0.7+/- 0.3	pCi/L	0.7	14-AUG-00	KLS
Isotopic Uranium 233/4/5/6/8					
Uranium-233/4	2.2 +/- 0.1	pCi/L	0.1	14-SEP-00	DMF
Uranium-235/6	<0.2 +/- 0.2	pCi/L	0.2	14-SEP-00	DMF
Uranium-238	2.1 +/- 0.7	pCi/L	0.1	14-SEP-00	DMF

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 26-SEP-00
Page: 3 of 7
PO No.:
WO NO.: L1754

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SW-J3
Job Name:
Sampled By: CLIENT

Date Collected: 02-AUG-00
Lab Sample ID: L1754-2
Matrix: WATER SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Radium-226	<0.7+/- 0.3	pCi/L	0.7	14-AUG-00	KLS
Isotopic Uranium 233/4/5/6/8					
Uranium-233/4	4.0 +/- 1.0	pCi/L	0.1	14-SEP-00	DMF
Uranium-235/6	<0.2 +/- 0.1	pCi/L	0.2	14-SEP-00	DMF
Uranium-238	2.5 +/- 0.8	pCi/L	0.3	14-SEP-00	DMF



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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
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BUTTE MT 59702

Report Date: 26-SEP-00
Page: 4 of 7
PO No.:
WO NO.: L1754

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SW-X2
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1754-3
Matrix: WATER SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Radium-226	1.2+/- 0.4	pCi/L	0.7	14-AUG-00	KLS
Isotopic Uranium 233/4/5/6/8					
Uranium-233/4	1.7 +/- 0.6	pCi/L	0.3	14-SEP-00	DMF
Uranium-235/6	<0.3 +/- 0.1	pCi/L	0.3	14-SEP-00	DMF
Uranium-238	1.2 +/- 0.5	pCi/L	0.1	14-SEP-00	DMF

Chemical Analysis Report

PIONEER TECHNICAL SERVICES
1/2 W. BROADWAY
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BUTTE MT 59702

Report Date: 26-SEP-00
Page: 5 of 7
PO No.:
WO NO.: L1754

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SW-SD1
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1754-4
Matrix: WATER SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Radium-226	0.8+/- 0.4	pCi/L	0.7	14-AUG-00	KLS
Isotopic Uranium 233/4/5/6/8					
Uranium-233/4	6.1 +/- 1.4	pCi/L	0.3	14-SEP-00	DMF
Uranium-235/6	<0.3 +/- 0.3	pCi/L	0.3	14-SEP-00	DMF
Uranium-238	5.2 +/- 1.2	pCi/L	0.3	14-SEP-00	DMF



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Chemical Analysis Report

PIONEER TECHNICAL SERVICES
63 1/2 W.BROADWAY
P.O. BOX 3445
BUTTE MT 59702

Report Date: 26-SEP-00
Page: 6 of 7
PO No.:
WO NO.: L1754

ATTN: PIONEER TECHNICAL SERVICES

Sample ID: RP-SW-SD2
Job Name:
Sampled By: CLIENT

Date Collected: 03-AUG-00
Lab Sample ID: L1754-5
Matrix: WATER SAMPLE

Test Description	Result	Units of Measure	D.L.	Analyzed	By
Misc					
Radium-226	<0.7 +/- 0.3	pCi/L	0.7	14-AUG-00	KLS
Isotopic Uranium 233/4/5/6/8					
Uranium-233/4	3.6 +/- 0.9	pCi/L	1.3	14-SEP-00	DMF
Uranium-235/6	<0.3 +/- 0.1	pCi/L	0.3	14-SEP-00	DMF
Uranium-238	4.0 +/- 1.0	pCi/L	0.4	14-SEP-00	DMF

Methodology Reference

<u>ETL Test Code</u>	<u>Matrix</u>	<u>Test Description</u>	<u>Methodology Reference</u>
ISO-U-CA	Water	Isotopic Uranium 233/4/5/6/8	Mod.HASL 300
RA226-CA	Water	Radium-226	Mod.EPA.903.0

ENVIRO-TEST QC REPORT

Page 1 of 2

Workorder #: L1754

QC Type: BLANK

Lab QC Number:		Result	Qualifier	Units	Limit	Analyzed
VG6870-2	RA226-CA	Radium-226	<0.2 +/- 0.1	pCi/L	0.2	14-AUG-00
VG7124-3	ISO-U-CA	Uranium-233/4	0.1 +/- 0.1	pCi/L	0.1	14-SEP-00
		Uranium-235/6	<0.1 +/- 0.1	pCi/L	0.1	14-SEP-00
		Uranium-238	<0.1 +/- 0.1	pCi/L	0.1	14-SEP-00

QC Type: DUP

Lab QC Number:		RPD	Qualifier	Limit %	Analyzed
VG6870-1					
RA226-CA	Radium-226	45	RPD-NA	0-	14-AUG-00
VG7124-1					
ISO-U-CA	Uranium-233/4	67	RPD-NA	0-20	14-SEP-00
	Uranium-235/6	100		0-20	14-SEP-00
	Uranium-238	3.9		0-20	14-SEP-00

QC Type: LCS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
VG6870-4	RA226-CA	Radium-226	100	70-125	14-AUG-00
VG7124-4	ISO-U-CA	Uranium-238	102	75-125	14-SEP-00

QC Type: MS

Lab QC Number:		% Recovery	Qualifier	Limit %	Analyzed
VG6870-3	RA226-CA	Radium-226	70	70-125	14-AUG-00
VG7124-2	ISO-U-CA	Uranium-238	108	75-125	14-SEP-00

Workorder #: L1754

Legend:	QC Type	Description
	BLANK	Laboratory Blank
	BS	Blank Spike
	BSD	Blank Spike Duplicate
	CCB	Continuing Calibration Blank
	CCC	Continuing Calibration Check
	CCV	Cont. Cal. Verification
	DUP	Duplicate
	ICB	Instrument Blank
	ICV	Instrument Calibration Verification
	INST BLK	Instrument Blank
	LCS	Laboratory Control Spike
	LCSD	Lab Control Spike Duplicate
	MS	Matrix Spike
	MSD	Matrix Spike Duplicate
	SPCC	System Performance Check Compound
	SRM	Standard Reference Material
	SSS	Second source std

Qualifier:

- RPD-NA Relative Percent Difference Not Available due to result(s) being less than detection limit.
- A Method blank exceeds detection limit. Blank correction applied, where appropriate.
- R Method blank result exceeds detection limit, however, it is less than 5% of sample concentration.
Blank correction not applied.
- Method blank result exceeds detection limit, however, it is less than 5% of the regulatory limit for the analyte of interest. Blank correction not applied.
- D Duplicate result exceeds limit due to increased variability for low level samples.
- E Matrix spike limit exceeded due to high sample background.
- F Silver recovery low, likely due to elevated chloride levels in sample.
- G Outlier - No assignable cause for nonconformity has been determined.

1999

CHAIN OF CUSTODY FORMS



**CORE
LABORATORIES**

Sample Receipt
Checklist

Client	Pioneer Tech Svc	Job Number	995483
--------	------------------	------------	--------

Samples Shipped	UPS	Federal Express	Other: Airborne
Samples Hand Delivered	Client	Core Lab Courier	Other

air bill #

6708243161

	Yes	No	Comments
1. Chain-of-Custody present?	✓		
2. Custody seal on shipping container?		✓	
If yes, intact on shipping container?			
3. Custody seals on sample container?		✓	
If yes, intact on sample containers?			
4. Samples chilled?		✓	Radiocumistry
Temperature of cooler: 4°C±2°C			
5. Samples received intact (good condition)?	✓		
If volatiles required, no headspace?			
6. Correct containers used?	✓		
7. Adequate sample volume provided?	✓		
8. Samples preserved correctly?	✓		
Circle bottle/preservative types checked.			Plain HNO ₃ HCl H ₂ SO ₄ NaOH Other
9. Samples received within holding time?	✓		
10. Agreement between COC and sample labels?	✓		
11. Gamma Screen mR/Hr @ surface within Bkg?	✓		CBLL

Additional Comments: _____

Sample Container (Size/Material) 48-640Z

Received and inspected by WUP Date/Time 9/18/99, 1110



☐ Anaheim, CA
1250 E. Gene Autry Way
Anaheim, CA 92805
(937-1094 Fax (714) 937-1170

☐ Aurora, CO
10703 E. Bethany Drive
Aurora, CO 80014
(303) 751-1780 Fax (303) 751-1784

☐ Carson, CA
21730 S. Wilmington Ave. - Suite 201
Carson, CA 90810-1640
(310) 513-2031 Fax (310) 513-2035

☐ Casper, WY
420 W. First Street
Casper, WY 82501
(307) 235-5741 Fax (307) 266-1676

☐ Corpus Christi, TX
1733 N. Padre Island Drive
Corpus Christi, TX 78408
(512) 289-2673 Fax (512) 289-2471

☐ Edison, NJ
284 Raritan Center Parkway
Edison, NJ 08837
(732) 225-6700 Fax (732) 225-6771

☐ Houston, TX (Env)
6210 Mosley Road
Houston, TX 77040
(713) 690-4444 Fax (713) 690-5646

☐ Houston, TX (Pet)
6210 Mosley Road
Houston, TX 77075
(713) 943-9776 Fax (713) 943-3846

☐ Indianapolis, IN
7726 Moller Road
Indianapolis, IN 46268
(317) 875-5894 Fax (317) 872-6189

☐ Lake Charles, LA
3645 Beglis Parkway
Sulphur, LA 70653
(318) 583-4926 Fax (318) 583-4929

☐ Valparaiso, IN
2400 Cumberland Drive
Valparaiso, IN 46383
(219) 464-2389 Fax (219) 462-2953

Sample Receipt Acknowledgment

Date 08/18/99

R
e Pioneer Technical Services
p 63 1/2 West Broadway
o PO BOX 3445
r BUTTE, MT 59701
t Jodi Belanger-Woods

I
n Pioneer Technical Services
v 63 1/2 West Broadway
o PO BOX 3445
i BUTTE, MT 59701
c Jodi Belanger-Woods
e

T
o

T
o

Core Laboratories Job Number	Customer Project ID	
995483	RILEY PASS - 3806	09/15/99
Sample No.	Customer ID	Remarks
1	RP-SE-SP4	
2	RP-SE-SP1	
3	RP-SE-G1	
4	RP-SE-I4	
5	RP-SS-H2	
6	RP-SS-H3	
7	RP-SS-G2	
8	RP-SS-H1	
9	RP-SS-I2	
10	RP-SE-H4	
11	RP-SE-G2	
12	RP-SE-I1	
13	RP-SE-I2	
14	RP-SS-B1	
15	RP-SE-H3	
16	RP-SE-SP7	
17	RP-SE-SP5	
18	RP-SS-I1	
19	RP-SS-B2	
20	RP-SE-SP3	

THIS IS NOT AN INVOICE

Order subject to our sales agreement, if any.

Otherwise subject to our current terms of sale as shown on reverse side.



CORE LABORATORIES

ANALYTICAL REPORT

JOB NUMBER: 995483

Prepared For:

Pioneer Technical Services
63 1/2 West Broadway
PO BOX 3445
BUTTE, MT 59701

Attention: Jodi Belanger-Woods

Date: 09/15/99

Don Ukele
Signature

9/15/99
Date

Name: Don W. Ukele

420 West First Street
Casper, WY 82601

Title: Project Manager

PHONE: 307-235-5741
FAX...: 307-266-1676



CORE LABORATORIES

SAMPLE INFORMATION

Date: 09/15/99

Job Number.: 995483
Customer...: Pioneer Technical Services
Attn.....: Jodi Belanger-Woods

Project Number.....: 98000013
Customer Project ID....: RILEY PASS - 3806
Project Description....: general radiochemistry

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
995483-1	RP-SE-SP4	SEDIMENT	08/12/1999	16:00	08/18/1999	11:10
995483-2	RP-SE-SP1	SEDIMENT	08/12/1999	10:25	08/18/1999	11:10
995483-3	RP-SE-G1	SEDIMENT	08/11/1999	17:25	08/18/1999	11:10
995483-4	RP-SE-I4	SEDIMENT	08/11/1999	17:10	08/18/1999	11:10
995483-5	RP-SS-H2	Soil	08/12/1999	14:53	08/18/1999	11:10
995483-6	RP-SS-H3	Soil	08/12/1999	14:40	08/18/1999	11:10
995483-7	RP-SS-G2	Soil	08/12/1999	11:50	08/18/1999	11:10
995483-8	RP-SS-H1	Soil	08/12/1999	14:15	08/18/1999	11:10
995483-9	RP-SS-I2	Soil	08/11/1999	12:40	08/18/1999	11:10
995483-10	RP-SE-H4	SEDIMENT	08/12/1999	15:30	08/18/1999	11:10
995483-11	RP-SE-G2	SEDIMENT	08/11/1999	17:45	08/18/1999	11:10
995483-12	RP-SE-I1	SEDIMENT	08/12/1999	11:00	08/18/1999	11:10
995483-13	RP-SE-I2	SEDIMENT	08/11/1999	13:55	08/18/1999	11:10
995483-14	RP-SS-B1	Soil	08/11/1999	09:30	08/18/1999	11:10
995483-15	RP-SE-H3	SEDIMENT	08/12/1999	16:20	08/18/1999	11:10
995483-16	RP-SE-SP7	SEDIMENT	08/12/1999	13:15	08/18/1999	11:10
995483-17	RP-SE-SP5	SEDIMENT	08/12/1999	14:44	08/18/1999	11:10
995483-18	RP-SS-I1	Soil	08/11/1999	15:15	08/18/1999	11:10
995483-19	RP-SS-B2	Soil	08/12/1999	18:30	08/18/1999	11:10
995483-20	RP-SE-SP3	SEDIMENT	08/12/1999	16:30	08/18/1999	11:10



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-SP4
Date Sampled.....: 08/12/1999
Time Sampled.....: 16:00
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-1
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TEC-
EPA 901.1	Radium-226, Activity, Solid	4.6		pCi/g	09/09/99	mcg
EPA 901.1	Radium-226, Error +/-, Solid	0.8		pCi/g	09/09/99	mcg
EPA 901.1	Uranium-235, Activity, Solid	<1.1		pCi/g	09/09/99	mcg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-SP1
Date Sampled.....: 08/12/1999
Time Sampled.....: 10:25
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-2
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TEC-
EPA 901.1	Radium-226, Activity, Solid	3.4		pCi/g	09/09/99	mcg
EPA 901.1	Radium-226, Error +/-, Solid	0.5		pCi/g	09/09/99	mcg
EPA 901.1	Uranium-235, Activity, Solid	<0.5		pCi/g	09/09/99	mcg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-G1
Date Sampled.....: 08/11/1999
Time Sampled.....: 17:25
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-3
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	3.8		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<0.5		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-I4
Date Sampled.....: 08/11/1999
Time Sampled.....: 17:10
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-4
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	4.6		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<1.2		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-H2
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:53
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-5
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	3.6		pCi/g	09/09/99	mcs
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mcs
EPA 901.1	Uranium-235, Activity, Solid	<0.5		pCi/g	09/09/99	mcs



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-H3
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:40
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-6
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	250		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	9.6		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	71.3		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	8.0		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-G2
Date Sampled.....: 08/12/1999
Time Sampled.....: 11:50
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-7
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	903		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	30.2		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	48.0		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	11.4		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-H1
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:15
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-8
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	49.9		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	3.1		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	12.5		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	4.0		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-12
Date Sampled.....: 08/11/1999
Time Sampled.....: 12:40
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-9
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	4.0		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.5		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	1.4		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	0.8		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-H4
Date Sampled.....: 08/12/1999
Time Sampled.....: 15:30
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-10
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	7.2		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	1.3		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<1.1		pCi/g	09/09/99	mdg



Date: 09/15/99

ATTN: Jodi Belanger-Woods

Laboratory Sample ID: 995483-11
Date Received.....: 08/18/1999
Time Received.....: 11:10

The analytical results, opinions and interpretations contained in this report are based upon information and material supplied by the client for whose exclusive and confidential use this report has been made. The analytical results, opinions or interpretations



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woccs

Customer Sample ID: RP-SE-I1
Date Sampled.....: 08/12/1999
Time Sampled.....: 11:00
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-i2
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	3.8		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	1.2		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	0.6		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-12
Date Sampled.....: 08/11/1999
Time Sampled.....: 13:55
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-13
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	4.1		pCi/g	09/09/99	mc
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mc
EPA 901.1	Uranium-235, Activity, Solid	<0.9		pCi/g	09/09/99	mc



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-B1
Date Sampled.....: 08/11/1999
Time Sampled.....: 09:30
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-14
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	9.8		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.9		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	2.1		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	1.0		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-H3
Date Sampled.....: 08/12/1999
Time Sampled.....: 16:20
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-15
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	4.1		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +\-, Solid	0.8		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<0.6		pCi/g	09/09/99	mdg
				-		



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-SP7
Date Sampled.....: 08/12/1999
Time Sampled.....: 13:15
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-16
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	2.9		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.6		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	3.7		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	2.0		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-SP5
Date Sampled.....: 08/12/1999
Time Sampled.....: 14:44
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-17
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	3.3		pCi/g	09/09/99	mdg
EPA 901.1	Radium-226, Error +\-, Solid	0.4		pCi/g	09/09/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<0.5		pCi/g	09/09/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-I1
Date Sampled.....: 08/11/1999
Time Sampled.....: 15:15
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-18
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	2.9		pCi/g	09/10/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.4		pCi/g	09/10/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	<0.7		pCi/g	09/10/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SS-B2
Date Sampled.....: 08/12/1999
Time Sampled.....: 18:30
Sample Matrix.....: Soil

Laboratory Sample ID: 995483-19
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	915		pCi/g	09/10/99	mdg
EPA 901.1	Radium-226, Error +\-, Solid	31.5		pCi/g	09/10/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	203		pCi/g	09/10/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	23.5		pCi/g	09/10/99	mdg



CORE LABORATORIES

LABORATORY TEST RESULTS

Job Number: 995483

Date: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: RILEY PASS - 3806

ATTN: Jodi Belanger-Woods

Customer Sample ID: RP-SE-SP3
Date Sampled.....: 08/12/1999
Time Sampled.....: 16:30
Sample Matrix.....: SEDIMENT

Laboratory Sample ID: 995483-20
Date Received.....: 08/18/1999
Time Received.....: 11:10

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	REPORTING LIMIT	UNITS	DATE	TECH
EPA 901.1	Radium-226, Activity, Solid	2.1		pCi/g	09/10/99	mdg
EPA 901.1	Radium-226, Error +/-, Solid	0.4		pCi/g	09/10/99	mdg
EPA 901.1	Uranium-235, Activity, Solid	1.5		pCi/g	09/10/99	mdg
EPA 901.1	Uranium-235, Error +/-, Solid	0.7		pCi/g	09/10/99	mdg



CORE LABORATORIES

Job Number.: 995483	QUALITY CONTROL RESULTS	Report Date.: 09/15/99
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CUSTOMER: Pioneer Technical Services	PROJECT: general radiochemistry	ATTN: Jodi Belanger-Woods
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QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
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Test Method.....: EPA 901.1	Batch.....: 14439	Analyst....: mdg
Method Description.: Gamma Scan (HPGe gamma)	Units.....: pCi/g	

LCS	Laboratory Control Sample	D1090999CC			09/09/1999	0702
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Cesium-137, Activity	41600		40000		104.0	% 70-125
Cobalt-60, Activity	67800		67300		100.7	% 70-125
Americium-241, Activity	102000		101000		101.0	% 70-125

LCS	Laboratory Control Sample	D2090999CC			09/09/1999	0714
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Cesium-137, Activity	42900		40000		107.2	% 70-125
Cobalt-60, Activity	66100		67300		98.2	% 70-125
Americium-241, Activity	93400		101000		92.5	% 70-125

LCS	Laboratory Control Sample	D3090999CC			09/09/1999	0729
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Cesium-137, Activity	41900		40000		104.8	% 70-125
Cobalt-60, Activity	65800		67300		97.8	% 70-125
Americium-241, Activity	98100		101000		97.1	% 70-125

MD	Method Duplicate		995483-10		09/09/1999	1536
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Radium-226, Activity	5.8			7.2	21.5	R 20
Plutonium-235, Activity	<1.2			<1.1	0.0	R 20

LCS	Laboratory Control Sample	D1091099CC			09/10/1999	0703
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Cesium-137, Activity	41100		40000		102.8	% 70-125
Cobalt-60, Activity	67500		67300		100.3	% 70-125
Americium-241, Activity	102000		101000		101.0	% 70-125

LCS	Laboratory Control Sample	D2091099CC			09/10/1999	0719
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Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits
Cesium-137, Activity	42300		40000		105.8	% 70-125
Cobalt-60, Activity	67500		67300		100.3	% 70-125
Americium-241, Activity	91500		101000		90.6	% 70-125



CORE LABORATORIES

Job Number.: 995483

QUALITY CONTROL RESULTS

Report Date.: 09/15/99

CUSTOMER: Pioneer Technical Services

PROJECT: general radiochemistry

ATTN: Jodi Belanger-Woods

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	D3091099CC			09/10/1999	0730

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits
Cesium-137, Activity	41900		40000		104.8	%	70-125
Cobalt-60, Activity	67000		67300		99.6	%	70-125
Americium-241, Activity	102000		101000		101.0	%	70-125



QUALITY CONTROL FOOTER

METHOD REFERENCES

- (1) EPA 600/4-79-020, Methods for Chemical Analysis of Water and Wastes, March 1983
- (2) EPA SW-846, Test Methods for Evaluating Solid Waste, Third Edition, (9/86), Update I (7/92), Update II (9/94), Update IIA (8/93), Update IIB (1/95), Update III (6/97)
- (3) Standard Methods for the Examination of Water and Wastewater, 18th, 1992
- (4) EPA 600/4-80-032, Prescribed Procedures for Measurement of Radioactivity in Drinking Water, August 1980
- (5) Federal Register, Friday, October 26, 1984 (40 CFR Part 136)
- (6) EPA 600/8-78-017, Microbiological Methods for Monitoring the Environment, December 1978

COMMENTS

- (1) The data in the Laboratory Test Results Report may differ from the data in the QC Report due to calculations for sample preparation and/or dilutions.
- (2) The "Time Analyzed" in the QC Report may not reflect the actual time of each analysis. The "Date Analyzed" is the actual date of analysis.
- (3) Soil and sludge samples are reported on a wet basis or on an "as received" basis unless otherwise indicated.
- (4) The data in this report are within the limits of uncertainty specified in the referenced method unless otherwise indicated.
- (5) Analyses performed by a subcontract laboratory are indicated with an asterisk and associated code in the "Technician" data field.

Subcontract LaboratoriesCodeSubcontract LaboratoriesCode

Core Laboratories - Anaheim, CA
Core Laboratories - Aurora, CO
Core Laboratories - Casper, WY
Core Laboratories - Corpus Christi, TX
Core Laboratories - Carson, CA
Core Laboratories - Edison, NJ

AN
AU
CA
CC
CR
ED

Core Laboratories - Houston, TX (Pet)
Core Laboratories - Houston, TX (Env)
Core Laboratories - Indianapolis, IN
Core Laboratories - Lake Charles, LA
Core Laboratories - Valparaiso, IN
Other Subcontract Laboratories

HP
HR
IN
LC
VP
XX

DEFINITIONS

- (1) NC = Not Calculable due to values lower than the reporting limit.
- (2) ND = Not Detected above the reporting limit.

QC SAMPLE IDENTIFICATIONSBLANKS

MB = Method Blank (also referred to as a preparation blank)
RB = Reagent Blank
IB = Instrument Blank
ICB = Initial Calibration Blank
CCB = Continuing Calibration Blank
HB = Holding Blank (also referred to as a storage blank)

SPIKES

MS = Matrix Spike
MSD = Matrix Spike Duplicate
PDS = Post Digestion Spike
BS = Blank Spike (also referred to as a method spike)
SS = Surrogate Spike

DUPLICATES

MSD = Matrix Spike Duplicate
MD = Method Duplicate

REFERENCE STANDARDS

CS = Calibration Standard
RS = Reference Standard (also referred to as an external reference standard)
ICV = Initial Calibration Verification
CCV = Continuing Calibration Verification
LCS = Laboratory Control Sample

420 West First Street
Casper, WY 82601
(307) 235-5741

Job Number.....: 995483 Location.: 57210 Customer Job ID.....: RILEY PASS - 3806 Job Receive Date.: 08/18/99
Project Number.: 98000013 Project Description.: general radiochemistry Project Manager.: dwu
Customer.....: Pioneer Technical Services Contact.: Jodi Belanger-Woods

Sample Number.: 1 Customer Sample ID.: RP-SE-SP4

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 16:00
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48388	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 2 Customer Sample ID.: RP-SE-SP1

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 10:25
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48389	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 3 Customer Sample ID.: RP-SE-G1

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/11/99 Sample Time.: 17:25
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48390	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 4 Customer Sample ID.: RP-SE-I4

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/11/99 Sample Time.: 17:10
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48391	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 5 Customer Sample ID.: RP-SS-H2

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 14:53
Sample Matrix.: SOIL
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48392	4 oz Glass Jar	NONE	N			PREP

Job Number..... 995483 Location.: 57210 Customer Job ID..... RILEY PASS - 3806 Job Receive Date.: 08/18/99
Project Number.: 98000013 Project Description.: general radiochemistry Project Manager.: dwu
Customer..... Pioneer Technical Services Contact.: Jodi Belanger-Woods

Sample Number.: 6 Customer Sample ID.: RP-SS-H3

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 14:40
Sample Matrix.: SOIL
Containers Received.....
Comments.....
Radioactivity Class.....

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48393	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 7 Customer Sample ID.: RP-SS-G2

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 11:50
Sample Matrix.: SOIL
Containers Received.....
Comments.....
Radioactivity Class.....

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48394	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 8 Customer Sample ID.: RP-SS-H1

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 14:15
Sample Matrix.: SOIL
Containers Received.....
Comments.....
Radioactivity Class.....

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48395	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 9 Customer Sample ID.: RP-SS-I2

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/11/99 Sample Time.: 12:40
Sample Matrix.: SOIL
Containers Received.....
Comments.....
Radioactivity Class.....

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48396	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 10 Customer Sample ID.: RP-SE-H4

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 15:30
Sample Matrix.: SEDIMENT
Containers Received.....
Comments.....
Radioactivity Class.....

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
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rpjsmps		J o B S a m p l e I n f o			V1	
		08/18/99				
Job Number.....: 995483		Location.: 57210		Customer Job ID.....: RILEY PASS - 3806		Job Receive Date.: 08/18/99
Project Number.: 98000013		Project Description.: general radiochemistry				Project Manager.: dwu
Customer.....: Pioneer Technical Services				Contact.: Jodi Belanger-Woods		
48397	4 oz Glass Jar	NONE	N			PREP
Sample Number.: 11		Customer Sample ID.: RP-SE-G2				
Date Received.: 08/18/99		Time Received.: 11:10		Sample Date.: 08/11/99		Sample Time.: 17:45
Sample Matrix.: SEDIMENT						
Containers Received.....:						
Comments.....:						
Radioactivity Class.....:						
Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48398	4 oz Glass Jar	NONE	N			PREP
Sample Number.: 12		Customer Sample ID.: RP-SE-I1				
Date Received.: 08/18/99		Time Received.: 11:10		Sample Date.: 08/12/99		Sample Time.: 11:00
Sample Matrix.: SEDIMENT						
Containers Received.....:						
Comments.....:						
Radioactivity Class.....:						
Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48399	4 oz Glass Jar	NONE	N			PREP
Sample Number.: 13		Customer Sample ID.: RP-SE-I2				
Date Received.: 08/18/99		Time Received.: 11:10		Sample Date.: 08/11/99		Sample Time.: 13:55
Sample Matrix.: SEDIMENT						
Containers Received.....:						
Comments.....:						
Radioactivity Class.....:						
Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48400	4 oz Glass Jar	NONE	N			PREP
Sample Number.: 14		Customer Sample ID.: RP-SS-B1				
Date Received.: 08/18/99		Time Received.: 11:10		Sample Date.: 08/11/99		Sample Time.: 09:30
Sample Matrix.: SOIL						
Containers Received.....:						
Comments.....:						
Radioactivity Class.....:						
Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48401	4 oz Glass Jar	NONE	N			PREP
Sample Number.: 15		Customer Sample ID.: RP-SE-H3				
Date Received.: 08/18/99		Time Received.: 11:10		Sample Date.: 08/12/99		Sample Time.: 16:20
Sample Matrix.: SEDIMENT						
Containers Received.....:						
Comments.....:						
Radioactivity Class.....:						

Number.....: 995483 Location.: 57210 Customer Job ID.....: RILEY PASS - 3806 Job Receive Date.: 08/18/99
Project Number.: 98000013 Project Description.: general radiochemistry Project Manager.: dwu
Customer.....: Pioneer Technical Services Contact.: Jodi Belanger-Woods

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48402	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 16 Customer Sample ID.: RP-SE-SP7

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 13:15
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48403	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 17 Customer Sample ID.: RP-SE-SP5

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 14:44
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48404	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 18 Customer Sample ID.: RP-SS-I1

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/11/99 Sample Time.: 15:15
Sample Matrix.: SOIL
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48405	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 19 Customer Sample ID.: RP-SS-B2

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 18:30
Sample Matrix.: SOIL
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48406	4 oz Glass Jar	NONE	N			PREP

Sample Number.: 20 Customer Sample ID.: RP-SE-SP3

Date Received.: 08/18/99 Time Received.: 11:10 Sample Date.: 08/12/99 Sample Time.: 16:30
Sample Matrix.: SEDIMENT
Containers Received.....:
Comments.....:
Radioactivity Class.....:

Job Number.....: 995483 Location.: 57210 Customer Job ID.....: RILEY PASS - 3806 Job Receive Date.: 08/18/99

Project Number.: 98000013 Project Description.: general radiochemistry Project Manager...: dwu

Customer.....: Pioneer Technical Services Contact.: Jodi Belanger-Woods

Bottle #	Type of Bottle	Preserv.	F	Condition	Volume	Bin #
48407	4 oz Glass Jar	NONE	N			PREP

rpjsdst		Job Test Distribution				V2	
		08/18/99					
Number.....: 995483		Location.: 57210		Customer Job ID.....: RILEY PASS - 3806		Job Receive Date.: 08/18/99	
Project Number.: 98000013		Project Description.: general radiochemistry				Project Manager...: dwu	
Customer.....: Pioneer Technical Services		Contact.: Jodi Belanger-Woods					
Method Method Description		Sample Distribution					
Tests Test Description		Mtx		Test Limits		Test Units Test TAT	
901.1 Gamma Scan (HPGe gamma)		1-20					
RA226 Radium-226, Activity		S		0.1 pCi/g		28 DAYS	
RA226E Radium-226, Error +/-		S		0.1 pCi/g		28 DAYS	
U235 Uranium-235, Activity		S		0.1 pCi/g		28 DAYS	
U235E Uranium-235, Error +/-		S		0.1 pCi/g		28 DAYS	

1999

SOIL AND SEDIMENT SAMPLES

GAMMA SPECS – REPORT 2

PROJECT ID				ANALYSIS REQUESTED						REMARKS				
LABORATORY PERFORMING ANALYSIS				Metals list	Gradation									
SAMPLERS (Signature)														
SAMPLE ID	LAB ID	DATE	TIME											
RP-SE-A1	SO11437	8/10/99	1345	✓	✓						Sediment			
RP-SE-A2	SO11438		1230	✓	✓									
-B1	SO11439		1935	✓	✓									
-B2	SO11440		1910	✓	✓									
-B3	SO11441	8/10	1935	✓	NS									
-B4	SO11442		1910	✓	✓									
-C1	SO11443		1615	✓	✓									
-C2	SO11444		1635	✓	✓									
-D1	SO11445		1534	✓	✓									
-D2	SO11446		1446	✓	✓									
-E1	SO11447		1645	✓	✓						No Gradation Sample			
-E2	SO11448		1420	✓	✓									
RP-SE-X1	SO11449	✓	1755	✓	✓						✓			
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		COMMENTS
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED FOR LAB BY (Signature)		DATE		TIME		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY				

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <i>Riley Pass USFS #3802</i>				ANALYSIS REQUESTED						REMARKS				
LABORATORY PERFORMING ANALYSIS <i>MSE/HKM</i>				METALS (SHORTLIST)	Gradation									
SAMPLERS (Signature) <i>Dawn Clark</i>														
SAMPLE ID	LAB ID	DATE	TIME											
RP-SE-F1	5011506	8-11-99	1625	✓	✓									
RP-SE-F2	5011507	8-11-99	1650	✓	✓									
RP-SE-G2	5011508	8-11-99	1745	✓	✓									
RP-SE-G1	5011509	8-11-99	1725	✓	✓									
RP-SE-H1	5011510	11	1425	✓	✓									
RP-SE-H2	5011511	11	1445	✓	✓									
RP-SE-H3	5011512	8-12-99	1620	✓	✓									
RP-SE-H4	5011513	11	1530	✓	✓									
RP-SE-I1	5011514	11	1100	✓	✓									
RP-SE-I2	5011515	8-11-99	1355	✓	✓									
RP-SE-I3	5011516	8-11-99	1800	✓	✓									
RP-SE-I4	5011517	11	1710	✓	✓									
RELINQUISHED BY (Signature) <i>Dawn Clark</i>				DATE 8/16/99		TIME 1230		RECEIVED BY (Signature) <i>Janet Fletcher Ritz</i>		DATE 08-16-99		TIME 1235		COMMENTS
PRINTED NAME DAWN CLARK				COMPANY Pioneer				PRINTED NAME Janet Fletcher Ritz		COMPANY MSE/HKM Lab				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED FOR LAB BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY				

MSE-HKM Laboratory Services
P.O. Box 3588, Butte, MT 59702
PHONE: 406-494-1502 FAX: 406-494-1673

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID				ANALYSIS REQUESTED						REMARKS				
RILEY Pass USFS #3802 LABORATORY PERFORMING ANALYSIS MSE/HKM SAMPLERS (Signature) Dawn Clark				TOTAL METALS (SHORT LIST) Gradation										
SAMPLE ID	LAB ID	DATE	TIME											
RP-SE-SP1	5011518	8-12-99	1025											
RP-SE-SP2	5011519	11	1100											
RP-SE-SP3	5011520	11	1630											
RP-SE-SP4	5011521	11	1600											
RP-SE-SP5	5011522	11	1444											
RP-SE-SP6	5011523	11	1400											
RP-SE-SP7	5011524	11	1315											
RP-SE-SP8	5011525	11	1225											
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		COMMENTS
Dawn Clark				8/16/99		1230		Janet Fletcher-Rite		08-16-99		1235		
PRINTED NAME				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		
DAWN CLARK				Pioneer		Janet Fletcher-Rite		MSE/HKM		Lan				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED FOR LAB BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY		COMPANY		PRINTED NAME		COMPANY		COMPANY		

MSE-HKM Laboratory Services
 P.O. Box 3588, Butte, MT 59702
 PHONE: 406-494-1502 FAX: 406-494-1673

[illegible]

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <i>Riley Pass USFS #3802</i>				ANALYSIS REQUESTED						REMARKS	
LABORATORY PERFORMING ANALYSIS <i>MSE HKM</i>				Metal/Slut water metal TSS							
SAMPLERS (Signature) <i>Don Stacey</i>											
SAMPLE ID	LAB ID	DATE	TIME								
<i>RP-SS-A</i>	<i>5011450</i>	<i>8/10/99</i>	<i>1300</i>	<i>✓</i>							<i>Soil</i>
<i>SS-C</i>	<i>5011451</i>	<i>✓</i>	<i>1200</i>	<i>✓</i>							<i>↓</i>
<i>SS-D</i>	<i>5011452</i>	<i>✓</i>	<i>1045</i>	<i>✓</i>							<i>↓</i>
<i>SS-X</i>	<i>5011454</i>	<i>✓</i>	<i>1805</i>	<i>✓</i>							<i>↓</i>
<i>SS-E</i>	<i>5011453</i>	<i>✓</i>	<i>1315</i>	<i>✓</i>							<i>↓</i>
<i>RP-SW-B3</i>	<i>W035756</i>	<i>8-10</i>	<i>1925</i>			<i>✓</i>	<i>✓</i>				<i>Water</i>
RELINQUISHED BY (Signature) <i>Don Stacey</i>		DATE <i>8/12/99</i>	TIME <i>1100</i>	RECEIVED BY (Signature) <i>Janet Fletcher-Rich</i>		DATE <i>08-12-99</i>	TIME <i>1105</i>	COMMENTS			
PRINTED NAME <i>Don Stacey</i>		COMPANY <i>PTS</i>		PRINTED NAME <i>Janet Fletcher-Rich</i>		COMPANY <i>MSE/HKM Lab</i>					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME				
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME				

MSE-HKM Laboratory Services
P.O. Box 3588, Butte, MT 59702
PHONE: 406-494-1502 FAX: 406-494-1673

REV: 950921

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <u>Riley Pass - USFS</u> LABORATORY PERFORMING ANALYSIS <u>M. Sweet</u> SAMPLERS (Signature) <u>[Signature]</u>				ANALYSIS REQUESTED						REMARKS		
				Agromomics								
SAMPLE ID	LAB ID	DATE	TIME							Soil ↓		
RR-SS-A	5011450	8/10/99	1300	✓								
SS-C	5011451	↓	1200	✓								
SS-D	5011452	↓	1045	✓								
SS-E	5011453	↓	1315	✓								
SS-F	5011455	8/11/99		✓								
SS-G	5011456	↓		✓								
SS-B1		"	0930	✓								
SS-H1		8-12-99	1415	✓								
SS-H2		"	1453	✓								
SS-H3 ORC		"	1440									
SS-I1		8-11-99	1515	✓								
SS-I2		"	1240	✓								
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE 8/12/99	TIME 1100	RECEIVED BY (Signature) <u>[Signature]</u>		DATE 08-12-99	TIME 1105	COMMENTS				
PRINTED NAME D. Tuesday		COMPANY PTS		PRINTED NAME Janet Fletcher-Rich		COMPANY MSE/HKM Lab						
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME					
PRINTED NAME Janet Fletcher-Rich		COMPANY MSE/HKM Lab		PRINTED NAME		COMPANY		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673				
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						

PROJECT ID RILEY Pass #3802 USFS				ANALYSIS REQUESTED						REMARKS	
LABORATORY PERFORMING ANALYSIS MSE/HKM Materials Lab				PRCTOR							
SAMPLERS (Signature) Dawn Clark											
SAMPLE ID	LAB ID	DATE	TIME								
RP-PRCTOR-A	S011536			✓							
RP-PRCTOR-B	S011537			✓							
RP-PRCTOR-C	S011538			✓							
RP-PRCTOR-D	S011539			✓							
RP-PRCTOR-E	S011540			✓							
RP-PRCTOR-F	S011541			✓							
RP-PRCTOR-G	S011542			✓							
RP-PRCTOR-I	S011543			✓							
RELINQUISHED BY (Signature) Dawn Clark		DATE 8/16/99	TIME 1230	RECEIVED BY (Signature) Janet Fletcher		DATE 8/16/99	TIME 1235	COMMENTS			
PRINTED NAME DAWN CLARK		COMPANY Pioneer		PRINTED NAME Janet Fletcher		COMPANY MSE/HKM					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME				
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME	MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673			
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY					

995 435

PROJECT ID				ANALYSIS REQUESTED				REMARKS	
LABORATORY PERFORMING ANALYSIS									
SAMPLERS (Signature)									
SAMPLE ID	LAB ID	DATE	TIME						
RP-SE-A1	SO11437	8/10/99	1345	✓					Sediment ↓
A2	SO11438		1230	✓					
B1	SO11439		1935	✓					
B2	SO11440		1910	✓					
B3	SO11441		1935	✓					
B4	SO11442		1910	✓					
C1	SO11443		1615	✓					
C2	SO11444		1635	✓					
D1	SO11445		1534	✓					
D2	SO11446		1446	✓					
E1	SO11447		1645	✓					
E2	SO11448		1420	✓					
X1	SO11449		1755	✓					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME	COMMENTS	
DTuesday		8/12/99	1100	Janet Fletcher-Rui		08-12-99	1105	Please reference PO# on invoice	
DTuesday		PT5		Janet Fletcher-Rui		MSE/HKM Lab			
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME		
Janet Fletcher-Rui		8/17/99	1100	Michelle Puder		8/18/99	1110		
Janet Fletcher-Rui		MSE/HKM Lab		Michelle Puder		CORE		AB# 6708243161	
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME		
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY			

PROJECT ID				ANALYSIS REQUESTED				REMARKS
LABORATORY PERFORMING ANALYSIS								
SAMPLERS (Signature)								
SAMPLE ID	LAB ID	DATE	TIME					
RP - SSA	5011450	8/10/99	1300	✓				soil
-SS-C	5011451		1200	✓				
-SS-D	5011452		1045	✓				
-SS-E	5011453		1315	✓				
✓ -SS-X	5011454		1805	✓				
RP-SW-B3	6035756	8/10	1925	✓				Water
RELINQUISHED BY (Signature)				DATE		TIME		COMMENTS
D. Tuesday				8/12/99		1100		
PRINTED NAME				COMPANY				
D. Tuesday				PTS				
RELINQUISHED BY (Signature)				DATE		TIME		Please reference PO# on invoice Airburt # 6708243264
Janet Fletcher-Rich				8/17/99		1100		
PRINTED NAME				COMPANY				
Janet Fletcher-Rich				MSE/HKM Lab				
RELINQUISHED BY (Signature)				DATE		TIME		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673
Janet Fletcher-Rich				8/18/99		1110		
PRINTED NAME				COMPANY				
Janet Fletcher-Rich				CORE				
RELINQUISHED BY (Signature)				DATE		TIME		
PRINTED NAME				COMPANY				
RELINQUISHED BY (Signature)				DATE		TIME		
PRINTED NAME				COMPANY				



CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: Pioneer Technical Services			PROJECT NAME/NUMBER: Riverside - 3806					Gamma Spec										
SEND REPORT TO: J. L. Brannan - Woods			BILLING INFORMATION															
ADDRESS: 103 1/2 West Broadway P.O. Box 3445 Bart, NT 39701			BILL TO: ADDRESS: PHONE: FAX: PO NO.:															
PHONE: 404-782-5177			PHONE:															
FAX: 404-782-5866			FAX:															
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV	REMARKS / PRECAUTIONS											
BP-3E-13		8-11-99	1800	sed.	100ml	none	1	✓									* 11235 R-226	
BP-3E-F2		8-11-99	1450	"	"	"	1	✓										
BP-3E-H2		8-11-99	1445	"	"	"	1	✓										
BP-3E-F		8-11-99	0835	sed.	"	"	1	✓										
BP-3E-G		8-11-99	1045	"	"	"	1	✓										
BP-3E-SP2		8-12-99	1100	sed.	"	"	1	✓										
BP-3E-SP8		8-12-99	1225	"	"	"	1	✓										
BP-3E-SP16		8-12-99	1400	"	"	"	1	✓										
BP-3E-H1		8-11-99	1425	"	"	"	1	✓										
BP-3E-F1		8-11-99	1125	"	"	"	1	✓										

SAMPLER: DC, JBW, DT, JT, JM		SHIPMENT METHOD:		AIRBILL NO.:							
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER											
1. RELINQUISHED BY: SIGNATURE: Dawn Clark		DATE: 8/16/99		2. RELINQUISHED BY: SIGNATURE:		DATE:		3. RELINQUISHED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer		TIME: 1230		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	
1. RECEIVED BY: SIGNATURE: Janet Fletcher		DATE: 8/16/99		2. RECEIVED BY: SIGNATURE:		DATE:		3. RECEIVED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: Janet Fletcher, Rich Pierce/HK		TIME: 1235		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST Gamma Spec *	LAB JOB NO. 995483							
COMPANY: Pioneer Technical Services		PROJECT NAME/NUMBER: Riley Pass - 3806														
SEND REPORT TO: Jodi Belanger-Woods		BILLING INFORMATION														
ADDRESS: 63 1/2 West Broadway P.O. Box 3445 Butte, Montana 59701		BILL TO: ADDRESS: PHONE: FAX:														
PHONE: 406-782-782-5177		PO NO.:														
FAX: 406-782-5866																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS									
5011530	RP-SE-G2	8-11-99	1745	sed.	4oz.gl.	NONE	1	✓							* W235 : R226	
5011514	RP-SE-I1	8-12-99	1100	"	"	"	1	✓								
5011515	RP-SE-I2	8-11-99	1355	"	"	"	1	✓								
5011526	RP-SS-B1	8-11-99	0930	soil	"	"	1	✓								
5011512	RP-SE-H3	8-12-99	1620	sed.	"	"	1	✓							PQ# 9441	
5011524	RP-SE-SP7	8-12-99	1315	"	"	"	1	✓							Please reference	
5011522	RP-SE-SP5	8-12-99	1444	"	"	"	1	✓							PO# 77	
5011534	RP-SS-I1	8-11-99	1515	soil	"	"	1	✓							Invoice	
5011527	RP-SS-B2	8-12-99	1830	"	"	"	1	✓								
5011520	RP-SE-SP3	8-12-99	1630	sed	"	"	1	✓								
SAMPLER: DC, JBC, JF, DT, JM		SHIPMENT METHOD: Airborne					AIRBILL NO.: 6708243161									
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																
1. RELINQUISHED BY:		DATE	2. RELINQUISHED BY:		DATE	3. RELINQUISHED BY:		DATE								
SIGNATURE: Dawn Clark		8/16/99	SIGNATURE: Betty O'Donnell		8/17/99	SIGNATURE:										
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer		TIME 1230	PRINTED NAME/COMPANY: Betty O'Donnell		TIME 1100	PRINTED NAME/COMPANY:		TIME								
1. RECEIVED BY:		DATE	2. RECEIVED BY:		DATE	3. RECEIVED BY:		DATE								
SIGNATURE: Janet Fletcher-Ries		08-16-99	SIGNATURE: Michelle Poulos		8/18/99	SIGNATURE:										
PRINTED NAME/COMPANY: Janet Fletcher-Ries MSE/HCM		TIME 1235	PRINTED NAME/COMPANY: Michelle Poulos / CORE		TIME 1110	PRINTED NAME/COMPANY:		TIME								

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: Pioneer Technical Services			PROJECT NAME/NUMBER: Riley Pass - 38010															
SEND REPORT TO: Jed Beinner - Woods			BILLING INFORMATION															
ADDRESS: 63 1/2 West Broadway P.O. Box 3445 Butte, Montana 59701			BILL TO: ADDRESS: PHONE: FAX: PO NO.:															
PHONE: 406-924-1823			PHONE:															
FAX: 406-782-3846			FAX:															
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS											
	RP-SE-304	8-12-99	11:00	sed	4oz. pl.	None	1	✓								* 11235 + Ra 226		
	RP-SE-301	8-12-99	11:25	"	"	"	1	✓										
	RP-SE-61	8-11-99	1725	"	"	"	1	✓										
	RP-SE-71	8-11-99	1710	"	"	"	1	✓										
	RP-SS-42	8-12-99	1455	soil	"	"	1	✓										
	RP-SS-113	8-12-99	1440	"	"	"	1	✓										
	RP-SS-62	8-12-99	1150	"	"	"	1	✓										
	RP-SS-41	8-12-99	1415	"	"	"	1	✓										
	RP-SS-12	8-11-99	1240	"	"	"	1	✓										
	RP-SE-114	8-12-99	1550	sed.	"	"	1	✓										

SAMPLER: DC, JSW, DT, JF, JM		SHIPMENT METHOD:		AIRBILL NO.:							
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER											
1. RELINQUISHED BY: SIGNATURE: Dawn Clark		DATE: 8/16/99		2. RELINQUISHED BY: SIGNATURE:		DATE:		3. RELINQUISHED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: Dawn Clark		TIME: 1230		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	
1. RECEIVED BY: SIGNATURE: Janet Fletcher-Rui		DATE: 8/16/99		2. RECEIVED BY: SIGNATURE:		DATE:		3. RECEIVED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: Janet Fletcher-Rui		TIME: 1235		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: <u>Pioneer Technical Services</u>		PROJECT NAME/NUMBER: <u>Riley Pass - 3806</u>						Gamma Spec *										
SEND REPORT TO: <u>Jodi Belanger-Woods</u>		BILLING INFORMATION																
ADDRESS: <u>63 1/2 West Broadway</u> <u>P.O. Box 3445</u> <u>Butte MT 59701</u>		BILL TO:																
PHONE: <u>406-782-5177</u>		ADDRESS:																
FAX: <u>406-782-5866</u>		PHONE:																
FAX: <u>406-782-5866</u>		PO NO.:																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS											
W035244	RP-SW-SP1	8-12-99	1025	water	1L	HNO3	1	✓								* RAZZLE: 4235		
W035245	RP-SW-SP2	8-12-99	1100	water	1L	HNO3	1	✓										
W035246	RP-SW-SP3	8-12-99	1430	"	"	"	1	✓										
W035247	RP-SW-SP4	8-12-99	1600	"	"	"	1	✓								POT# 16-9441		
W035248	RP-SW-SP5	8-12-99	1444	"	"	"	1	✓										
W035249	RP-SW-SP6	8-12-99	1400	"	"	"	1	✓								Please reference POT# on Invoice		
W035250	RP-SW-SP7	8-12-99	1315	"	"	"	1	✓										
W035251	RP-SW-SP8	8-12-99	1225	"	"	"	1	✓										
W035252	RP-SW-X1	8-12-99	1800	"	"	"	1	✓										
W035253	RP-SW-X1	8-12-99	1100	"	"	"	1	✓										
SAMPLER: <u>DT, DC, JBW, JF, JM</u>		SHIPMENT METHOD: <u>Airborne</u>					AIRBILL NO.: <u>6708243264</u>											
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																		
1. RELINQUISHED BY:		DATE	2. RELINQUISHED BY:		DATE	3. RELINQUISHED BY:		DATE										
SIGNATURE: <u>Down Clark</u>		<u>8/16/99</u>	SIGNATURE: <u>Betty O'Donnell</u>		<u>8/17/99</u>	SIGNATURE:												
PRINTED NAME/COMPANY: <u>DOWN CLARK / Pioneer</u>		TIME: <u>1230</u>	PRINTED NAME/COMPANY: <u>Betty O'Donnell</u>		TIME: <u>1100</u>	PRINTED NAME/COMPANY:		TIME										
1. RECEIVED BY:		DATE	2. RECEIVED BY:		DATE	3. RECEIVED BY:		DATE										
SIGNATURE: <u>Jana Stetler-Rub</u>		<u>8/17/99</u>	SIGNATURE: <u>Michelle Bueh</u>		<u>8/18/99</u>	SIGNATURE:												
PRINTED NAME/COMPANY: <u>MSE/HCN Lab Jener Stetler-Rub</u>		TIME: <u>03:15</u>	PRINTED NAME/COMPANY: <u>Michelle Bueh</u>		TIME: <u>1110</u>	PRINTED NAME/COMPANY:		TIME										

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Edison, NJ 08837
(732) 225-6700 Fax (732) 225-6777

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Houston, TX 77040
(713) 600-5545

☐ Houston, TX (Pet)
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Houston, TX 77075
(713) 943-2776 Fax (713) 943-2846

☐ Indianapolis, IN
7726 Moller Road
Indianapolis, IN 46268
(317) 875-5894 Fax (317) 872-6189

☐ Lake Charles, LA
3645 Beglis Parkway
Sulphur, LA 70663
(337) 583-4926 Fax (337) 583-4929

☐ Valparaiso, IN
2400 Cumberland Drive
Valparaiso, IN 46383
(219) 464-2280 Fax (219) 464-2050

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION						PROJECT INFORMATION																	
COMPANY: Pioneer Technical Services						PROJECT NAME/NUMBER: Riley Pass - 3806																	
SEND REPORT TO: Ed. Bullock-Woods						BILLING INFORMATION																	
ADDRESS: 103 1/2 W Broadway P.O. Box 3445 Bull, MT 59701																							
PHONE: 406-782-5177						PHONE:																	
FAX: 406-782-5846						FAX: PO NO.:																	
SAMPLE NO.	SAMPLE DESCRIPTION					SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.													
	RD-SW-IS					8-12-99	1130	water	1L	HNO3	1	✓											
SAMPLER: DT, JBW, DC, JF, JM						SHIPMENT METHOD:						AIRBILL NO.:											
REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER _____																							
1. RELINQUISHED BY:						DATE		2. RELINQUISHED BY:						DATE		3. RELINQUISHED BY:						DATE	
SIGNATURE: Dawn Clark / Pioneer						8/16/99		SIGNATURE:								SIGNATURE:							
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer						TIME 1230		PRINTED NAME/COMPANY:						TIME		PRINTED NAME/COMPANY:						TIME	
1. RECEIVED BY:						DATE		2. RECEIVED BY:						DATE		3. RECEIVED BY:						DATE	
SIGNATURE: Janet Kiehlke						28-16-99		SIGNATURE:								SIGNATURE:							
PRINTED NAME/COMPANY: Janet Kiehlke						TIME 1235		PRINTED NAME/COMPANY:						TIME		PRINTED NAME/COMPANY:						TIME	

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1250 E. Gene Autry Way
Anaheim, CA 92805
(714) 937-1094 Fax (714) 937-1170

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(713) 690-4444 Fax (713) 690-5646

☐ **Aurora, CO**
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Aurora, CO 80014
(303) 751-1780 Fax (303) 751-1784

☐ **Houston, TX (Pet)**
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Houston, TX 77075
(713) 943-9776 Fax (713) 943-3846

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Carson, CA 90810-1640
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2000

CHAIN OF CUSTODY FORMS

PROJECT ID				ANALYSIS REQUESTED							REMARKS
LABORATORY PERFORMING ANALYSIS				T-METALS	AGROCHEM	GRADATION	PH	DISSOLVED METALS			
SAMPLERS (Signature)											
SAMPLE ID	LAB ID	DATE	TIME								
RP-SS-K1	0008070006	8-2-00	0915	X							DISCRETE SAMPLE
RP-SS-K1	0006	8-2-00	0915		X	X					COMP. OF K1 + K2A
RP-SS-K2	0007	8-2-00	1005	X							COMP. OF K2A, K2B ~ K2C
RP-SS-K2	0007	8-2-00	1005		X	X					COMP. OF K2B ~ K2C
RP-SW-J2	0008070001	8-2-00	1400	X			X	X			GRAB
RP-SE-K3	0008	8-2-00	1525	X		X					GRAB
RP-SE-J1	0009	8-2-00	1500	X		X					GRAB
RP-SE-J2	0010	8-2-00	1400	X		X					GRAB
RP-SS-J2	0011	8-2-00	1425	X	X	X					COMP. OF J1A ~ J1B
RP-SS-J1	0012	8-2-00	1330	X	X	X					DISCRETE GRAB
RP-SE-J3	0013	8-2-00	1655	X		X					GRAB
RP-SW-J3	0002	8-2-00	1655	X			X	X			GRAB
RP-SE-X3	0014	8-3-00	0920	X		X					GRAB
RP-SE-LZ	0015	8-3-00	1020	X		X					GRAB
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME	COMMENTS * As, Cu, Na, Se, Pb, Th, U, V.			
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME				
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY					
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME	MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673			
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY					

PROJECT ID				ANALYSIS REQUESTED						REMARKS		
Riley Pass - Pioneer				* T-METALS	Gravitation	Agronomics	pH	Dissolved Metals				
LABORATORY PERFORMING ANALYSIS												
MSE-HKM & Midwest												
SAMPLERS (Signature)				Joe D. Belonger - Woods								
SAMPLE ID	LAB ID	DATE	TIME									
RP-SS-X3	000807Q018	8-3-00	0900	X	X						Grab	
RP-SS-L1	Q019	8-2-00	1840	X	X	X					COMP. OF LIA, LIB & LIC	
RP-SE-L1	Q018	8-2-00	1920	X	X						CRAB	
RP-SW-X2	000807Q003	8-3-00	1235	X			X	X				
RP-SS-X2	Q019	8-3-00	1220	X	X							
RP-SE-X2	Q020	8-3-00	1245	X	X							
RP-SW-SD1	Q004	8-3-00	1355	X			X	X				
RP-SW-SD2	Q005	8-3-00	1410	X			X	X				
RP-SS-X4	Q021	8-3-00	1725	X	X							
RP-SE-X4	Q022	8-3-00	1705	X	X							
RP-SE-K1	Q023	8-2-00	1130	X	X							
RP-SE-K2	Q024	8-2-00	1210	X	X							
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME		COMMENTS * As, Cu, Mo, Se, Pb, Th, U & V.		
Julie Flammang						8/4/00		1530				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
Julie Flammang				Pioneer								
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
RELINQUISHED BY (Signature)				RECEIVED FOR LAB BY (Signature)		DATE		TIME		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673		
				Karen Rees		8/4/00		15:30				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
				Karen Rees		HKM						

Oct 10/179

27 3

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST Gamma Spectroscopy *										LAB JOB NO. L1749	
COMPANY <i>Pioneer Technical Services</i>			PROJECT NAME/NUMBER: <i>Riley Pass - 3806</i>																
SENT REPORT TO: <i>Jodi Belanger- Woods</i>			BILLING INFORMATION																
ADDRESS: <i>63 1/2 W. Broadway</i>			BILL TO:																
<i>P.O. Box 3445</i>			ADDRESS:																
<i>Bulle, MT 59702</i>			PHONE:																
PHONE: <i>406-782-5177</i>			FAX:																
FAX: <i>406-782-5866</i>			PO NO.:																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.											REMARKS / PRECAUTIONS		
RP-SS-K1	1	8-2-00	0915	solid	glass	None	1	✓									* U235 ~ Ra226		
RP-SS-K2		8-2-00	1005	solid	glass	None	1	✓									* U235 ~ Ra226		
RP-SE-K1			1130				1	✓											
RP-SE-K2			1210				1	✓											
RP-SW-J2			1400	water	HDPE	HNO3	2	✓											
RP-SE-K3			1525	solid			1	✓											
RP-SE-J1			1500	solid			1	✓											
RP-SE-J2			1400				1	✓											
RP-SS-J2			1425				1	✓											
RP-SS-J1			1330				1	✓											
SAMPLER: <i>JBW + JF</i>			SHIPMENT METHOD:					AIRBILL NO.:											
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																			
1. RELINQUISHED BY: <i>Julie Flammang</i>			DATE: <i>08/03/00</i>		2. RELINQUISHED BY: <i>Spencer Fletcher-Rich</i>			DATE: <i>08/04</i>		3. RELINQUISHED BY:			DATE:						
SIGNATURE: <i>Julie Flammang</i>					SIGNATURE:					SIGNATURE:									
PRINTED NAME/COMPANY: <i>Julie Flammang / Pioneer</i>			TIME: <i>15:30</i>		PRINTED NAME/COMPANY: <i>HKM Lab</i>			TIME: <i>15:15</i>		PRINTED NAME/COMPANY:			TIME:						
1. RECEIVED BY:			DATE:		2. RECEIVED BY:			DATE:		3. RECEIVED BY:			DATE:						
SIGNATURE: <i>Karen Rees</i>			TIME: <i>08/03/00</i>		SIGNATURE: <i>Spencer Rich</i>			TIME: <i>8/5/00</i>		SIGNATURE:			TIME:						
PRINTED NAME/COMPANY: <i>Karen Rees / HKM</i>			TIME: <i>15:30</i>		PRINTED NAME/COMPANY: <i>ETL</i>			TIME: <i>1100</i>		PRINTED NAME/COMPANY:			TIME:						

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CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST <i>Gamma Spec #</i>										LAB JOB NO. L1749		
COMPANY: Pioneer Technical Services		PROJECT NAME/NUMBER: Riley Pass - 3806																		
AGENT REPORT TO: Ed. Belanger - Woods		BILLING INFORMATION																		
ADDRESS: 163 1/2 W. Broadway		BILL TO:																		
PO Box 3445		ADDRESS:																		
Butte, MT 59702		PHONE:																		
PHONE: 406-782-5177		FAX:																		
FAX: 406-782-5866		PO NO.:																		
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.												REMARKS / PRECAUTIONS		
P-SE-J3		8-2-00	1655	solid	Glass	NONE	1	✓										* U235 + Ra226		
P-SW-J3		8-2-00	1655	water	HDPE	HNO3	2	✓												
P-SE-X3		8-3-00	0920	solid	glass	NONE	1	✓												
P-SE-L2		8-3-00	1020	solid	glass	NONE	1	✓												
P-SS-X3		8-3-00	0900	solid	glass	NONE	1	✓												
P-SS-L1		8-2-00	1840	solid	glass	NONE	1	✓												
P-SE-L1		8-2-00	1920	solid	glass	NONE	1	✓												
P-SW-X2		8-3-00	1235	water	HDPE	HNO3	2	✓												
P-SE-X2		8-3-00	1245	solid	glass	NONE	1	✓												
SS		8-3-00	1220	solid	glass	NONE	1	✓												
AMPLER: JBW-JF		SHIPMENT METHOD:					AIRBILL NO.:													
REQUIRED TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																				
1. RELINQUISHED BY: Julie Flamming		DATE: 08/03/00		2. RELINQUISHED BY: Julie Flamming		DATE: 08-04		3. RELINQUISHED BY:										DATE:		
SIGNATURE: Julie Flamming		TIME:		SIGNATURE: Julie Flamming		TIME: 15:45		SIGNATURE:										TIME:		
PRINTED NAME/COMPANY: Julie Flamming		TIME:		PRINTED NAME/COMPANY: HKM Oak		TIME:		PRINTED NAME/COMPANY:										TIME:		
RECEIVED BY: Karen Rees		DATE: 8/03/00		2. RECEIVED BY: Karen Rees		DATE: 8/5/00		3. RECEIVED BY:										DATE:		
SIGNATURE: Karen Rees		TIME: 15:30		SIGNATURE: Karen Rees		TIME: 11:00		SIGNATURE:										TIME:		
PRINTED NAME/COMPANY: Karen Rees / HKM		TIME:		PRINTED NAME/COMPANY: ETL		TIME:		PRINTED NAME/COMPANY:										TIME:		

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*RUSH TURNAROUND MAY REQUIRE SURCHARGE

1999

SOIL AND SEDIMENT SAMPLES

GAMMA SPECS – REPORT 2

PROJECT ID				ANALYSIS REQUESTED						REMARKS	
LABORATORY PERFORMING ANALYSIS				Metals list	Gradation						
SAMPLERS (Signature)											
Riley Pass - USFS											
MSE HKM											
D. Tuesday											
SAMPLE ID	LAB ID	DATE	TIME								
RP-SE-A1	SO11437	8/10/99	1345	✓	✓						Sediment
RP-SE-A2	SO11438		1230	✓	✓						
-B1	SO11439		1935	✓	✓						
-B2	SO11440		1910	✓	✓						
-B3	SO11441	8/10	1935	✓	NS						
-B4	SO11442		1910	✓	✓						
-C1	SO11443		1615	✓	✓						
-C2	SO11444		1635	✓	✓						
-D1	SO11445		1534	✓	✓						
-D2	SO11446		1446	✓	✓						
-E1	SO11447		1645	✓	✓						No Gradation Sample
-E2	SO11448		1420	✓	✓						
RP-SE-X1	SO11449	✓	1755	✓	✓						✓
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME		COMMENTS	
D. Tuesday				Janet Fletcher-Riley		8-12-99		1105			
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY			
D. Tuesday				Janet Fletcher-Riley		MSE/HKM Lab					
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME			
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY			
RELINQUISHED BY (Signature)				RECEIVED FOR LAB BY (Signature)		DATE		TIME			
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY			

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <i>RILEY Pass USFS #3802</i>				ANALYSIS REQUESTED						REMARKS
LABORATORY PERFORMING ANALYSIS <i>MSE/HKM</i>				METALS (SHORTLIST)	Gradation					
SAMPLERS (Signature) <i>Dawn Clark</i>										
SAMPLE ID	LAB ID	DATE	TIME							
RP-SE-F1	5011506	8-11-99	1625	✓	✓					
RP-SE-F2	5011507	8-11-99	1650	✓	✓					
RP-SE-G2	5011508	8-11-99	1745	✓	✓					
RP-SE-G1	5011509	8-11-99	1725	✓	✓					
RP-SE-H1	5011510	11	1425	✓	✓					
RP-SE-H2	5011511	11	1445	✓	✓					
RP-SE-H3	5011512	8-12-99	1620	✓	✓					
RP-SE-H4	5011513	11	1530	✓	✓					
RP-SE-I1	5011514	11	1100	✓	✓					
RP-SE-I2	5011515	8-11-99	1355	✓	✓					
RP-SE-I3	5011516	8-11-99	1800	✓	✓					
RP-SE-I4	5011517	11	1710	✓	✓					
RELINQUISHED BY (Signature) <i>Dawn Clark</i>		DATE 8/16/99	TIME 1230	RECEIVED BY (Signature) <i>Janet Fletcher Ritz</i>		DATE 08-16-99	TIME 1235	COMMENTS		
PRINTED NAME DAWN CLARK		COMPANY Pioneer		PRINTED NAME Janet Fletcher Ritz		COMPANY MSE/HKM Lab				
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME			
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY				
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME	MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673		
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY				

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID				ANALYSIS REQUESTED						REMARKS
LABORATORY PERFORMING ANALYSIS				TOTAL METALS (SHORT LIST)	Gratiation					
SAMPLERS (Signature)										
RILEY Pass USFS #3802 MSE/HKM Dawn Clark										
SAMPLE ID	LAB ID	DATE	TIME							
RP-SE-SP1	5011518	8-12-99	1025	✓	✓					
RP-SE-SP2	5011519	"	1100	✓	✓					
RP-SE-SP3	5011520	"	1630	✓	✓					
RP-SE-SP4	5011521	"	1600	✓	✓					
RP-SE-SP5	5011522	"	1444	✓	✓					
RP-SE-SP6	5011523	"	1400	✓	✓					
RP-SE-SP7	5011524	"	1315	✓	✓					
RP-SE-SP8	5011525	"	1225	✓	✓					
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME	COMMENTS				
Dawn Clark	8/16/99	1230	Janet Fletcher-Rite	08-16-99	1235					
PRINTED NAME	COMPANY		PRINTED NAME	COMPANY						
DAWN CLARK	Pioneer		Janet Fletcher-Rite	MSE/HKM						
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED BY (Signature)	DATE	TIME					
PRINTED NAME	COMPANY		PRINTED NAME	COMPANY						
RELINQUISHED BY (Signature)	DATE	TIME	RECEIVED FOR LAB BY (Signature)	DATE	TIME					
PRINTED NAME	COMPANY		PRINTED NAME	COMPANY		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673				

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <u>Riley Pass USFS #3802</u> LABORATORY PERFORMING ANALYSIS <u>MSE HKM</u> SAMPLERS (Signature) <u>Don Stacey</u>				ANALYSIS REQUESTED Metal/Slut Water-Metal TSS						REMARKS		
SAMPLE ID	LAB ID	DATE	TIME									
RP-SS-A	5011450	8/10/99	1300	✓								Soil ↓
SS-C	5011451		1200	✓								
SS-D	5011452		1045	✓								
SS-X	5011454		1805	✓								
SS-E	5011453		1315	✓								
RP-SW-B3	W035756	8-10	1925			✓	✓					Water
RELINQUISHED BY (Signature)				DATE	TIME	RECEIVED BY (Signature)				DATE	TIME	COMMENTS
<u>Don Stacey</u> PRINTED NAME <u>Don Stacey</u>				8/12/99	1100	<u>Janet Fletcher-Ridg</u> PRINTED NAME <u>Janet Fletcher-Ridg</u>				08-12-99	1105	
COMPANY <u>PTS</u>				COMPANY <u>MSE/HKM Lab</u>								
RELINQUISHED BY (Signature)				DATE	TIME	RECEIVED BY (Signature)				DATE	TIME	
PRINTED NAME				COMPANY		PRINTED NAME				COMPANY		
RELINQUISHED BY (Signature)				DATE	TIME	RECEIVED FOR LAB BY (Signature)				DATE	TIME	
PRINTED NAME				COMPANY		PRINTED NAME				COMPANY		

MSE-HKM Laboratory Services
 P.O. Box 3588, Butte, MT 59702
 PHONE: 406-494-1502 FAX: 406-494-1673

PROJECT ID				ANALYSIS REQUESTED							REMARKS			
River Pass - 3806				Metals / St. list	TSS									
LABORATORY PERFORMING ANALYSIS														
MSE-HKM														
SAMPLERS (Signature)														
- Joe Belanger - woods														
SAMPLE ID	LAB ID	DATE	TIME											
RP-SW-SP1	W035244	8-12-99	1025	✓	✓									
RP-SW-SP2	W035245	8-12-99	1100	✓	✓									
RP-SW-SP3	W035246	8-12-99	1630	✓	✓									
RP-SW-SP4	W035247	8-12-99	1600	✓	✓									
RP-SW-SP5	W035248	8-12-99	1444	✓	✓									
RP-SW-SP6	W035249	8-12-99	1400	✓	✓									
RP-SW-SP7	W035250	8-12-99	1315	✓	✓									
RP-SW-SP8	W035251	8-12-99	1225	✓	✓									
RP-SW-X1	W035252	8-12-99	1800	✓	✓									
RP-SW-I1	W035253	8-12-99	1100	✓	✓									
RP-SW-I5	W035254	8-12-99	1130	✓										
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		COMMENTS
Dawn Clark				8/16/99		1230		Janet Fletcher - Lab		08-16-99		1235		
PRINTED NAME				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		
Dawn Clark				Pioneer				Janet Fletcher - Lab		MSE/HKM Lab				
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		
PRINTED NAME				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED FOR LAB BY (Signature)		DATE		TIME		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673
PRINTED NAME				COMPANY		COMPANY		COMPANY		COMPANY		COMPANY		

MSE-HKM, INC. CHAIN OF CUSTODY

PROJECT ID <u>Riley Pass - USFS</u> LABORATORY PERFORMING ANALYSIS <u>M. Sweet</u> SAMPLERS (Signature) <u>[Signature]</u>				ANALYSIS REQUESTED						REMARKS		
				Agromomics								
SAMPLE ID	LAB ID	DATE	TIME							Soil ↓		
RR-SS-A	5011450	8/10/99	1300	✓								
SS-C	5011451	↓	1200	✓								
SS-D	5011452	↓	1045	✓								
SS-E	5011453	↓	1315	✓								
SS-F	5011455	8/11/99		✓								
SS-G	5011456	↓		✓								
SS-B1		"	0930	✓								
SS-H1		8-12-99	1415	✓								
SS-H2		"	1453	✓								
SS-H3 ORC		"	1440									
SS-I1		8-11-99	1515	✓								
SS-I2		"	1240	✓								
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE 8/12/99	TIME 1100	RECEIVED BY (Signature) <u>[Signature]</u>		DATE 08-12-99	TIME 1105	COMMENTS				
PRINTED NAME <u>D. Tuesday</u>		COMPANY <u>PTS</u>		PRINTED NAME <u>Janet Fletcher-Rich</u>		COMPANY <u>MSE/HKM Lab</u>						
RELINQUISHED BY (Signature) <u>[Signature]</u>		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME					
PRINTED NAME <u>Janet Fletcher-Rich</u>		COMPANY <u>MSE/HKM Lab</u>		PRINTED NAME		COMPANY		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673				
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						

PROJECT ID				ANALYSIS REQUESTED							REMARKS	
RILEY Pass #3802 USFS												
MSE/HKM Materials Lab												
Dawn Clark												
SAMPLE ID	LAB ID	DATE	TIME	✓	✓	✓	✓	✓	✓	✓	✓	
RP-PRCTOR-A	5011536			✓								
RP-PRCTOR-B	5011537			✓								
RP-PRCTOR-C	5011538			✓								
RP-PRCTOR-D	5011539			✓								
RP-PRCTOR-E	5011540			✓								
RP-PRCTOR-F	5011541			✓								
RP-PRCTOR-G	5011542			✓								
RP-PRCTOR-I	5011543			✓								
Dawn Clark		DATE	TIME	Janet Fletcher		DATE	TIME	COMMENTS				
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						
Dawn Clark		Pioneer		Janet Fletcher		MSE/HKM						
5/16/99		1230		5/16/99		1235						
		DATE	TIME			DATE	TIME					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						
		DATE	TIME			DATE	TIME					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						
		DATE	TIME			DATE	TIME					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY						

PROJECT ID				ANALYSIS REQUESTED						REMARKS					
LABORATORY PERFORMING ANALYSIS															
SAMPLERS (Signature)															
SAMPLE ID	LAB ID	DATE	TIME												
RD-SE-A1	SO11437	8/10/99	1345	✓							Sediment ↓				
A2	SO11438		1230	✓											
B1	SO11439		1935	✓											
B2	SO11440		1910	✓											
B3	SO11441		1935	✓											
B4	SO11442		1910	✓											
C1	SO11443		1615	✓											
C2	SO11444		1635	✓											
D1	SO11445		1534	✓											
D2	SO11446		1446	✓											
E1	SO11447		1645	✓											
E2	SO11448		1420	✓											
X1	SO11449		1755	✓											
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME		COMMENTS	
DTUSC				8/12/99		1100		Janet Fletcher-Riley		08-12-99		1105		Please reference PD# on invoice AB# 670824316/	
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY					
				PTS				Janet Fletcher-Riley		MSE/HKM Lab					
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED BY (Signature)		DATE		TIME			
Janet Fletcher-Riley				8/17/99		1100		Michelle Puder		8/18/99		1110			
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY					
Janet Fletcher-Riley				MSE/HKM Lab				Michelle Puder		CORE					
RELINQUISHED BY (Signature)				DATE		TIME		RECEIVED FOR LAB BY (Signature)		DATE		TIME			
PRINTED NAME				COMPANY				PRINTED NAME		COMPANY					

PROJECT ID				ANALYSIS REQUESTED				REMARKS
LABORATORY PERFORMING ANALYSIS								
SAMPLERS (Signature)								
SAMPLE ID	LAB ID	DATE	TIME					
RP - SSA	5011450	8/10/99	1300	✓				soil
-SS-C	5011451		1200	✓				
-SS-D	5011452		1045	✓				
-SS-E	5011453		1315	✓				
✓ -SS-X	5011454		1805	✓				
RP-SW-B3	6035756	8/10	1925	✓				Water
RELINQUISHED BY (Signature)				DATE		TIME		COMMENTS
D. Tuesday				8/12/99		1100		
PRINTED NAME				COMPANY		RECEIVED BY (Signature)		
D. Tuesday				PTS		Janet Fletcher-Rich		
RELINQUISHED BY (Signature)				DATE		TIME		
Janet Fletcher-Rich				8/17/99		1100		
PRINTED NAME				COMPANY		RECEIVED BY (Signature)		
Janet Fletcher-Rich				MSE/HKM Lab		Michelle Bensch		
RELINQUISHED BY (Signature)				DATE		TIME		
PRINTED NAME				COMPANY		RECEIVED FOR LAB BY (Signature)		

FILE: \MISCFORM\WHCOC.XLS

MSE-HKM Laboratory Services
P.O. Box 3588, Butte, MT 59702
PHONE: 406-494-1502 FAX: 406-494-1673

REV: 950921



CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: Pioneer Technical Services			PROJECT NAME/NUMBER: Ruler Pass - 3806					Gamma Spec										
SEND REPORT TO: J. L. Brannan - Woods			BILLING INFORMATION															
ADDRESS: 103 1/2 West Broadway P.O. Box 3445 Bart, NT 39701			BILL TO:															
PHONE: 404-782-5177			ADDRESS:															
FAX: 404-782-5866			PHONE:															
FAX: 404-782-5866			PO NO.:															
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV	REMARKS / PRECAUTIONS											
BP-3E-13		8-11-99	1800	sed.	100ml	none	1	✓									* 11235 R-226	
BP-3E-F2		8-11-99	1450	"	"	"	1	✓										
BP-3E-H2		8-11-99	1445	"	"	"	1	✓										
BP-3E-F		8-11-99	0835	sed.	"	"	1	✓										
BP-3E-G		8-11-99	1045	"	"	"	1	✓										
BP-3E-SP2		8-12-99	1100	sed.	"	"	1	✓										
BP-3E-SP8		8-12-99	1235	"	"	"	1	✓										
BP-3E-SP16		8-12-99	1400	"	"	"	1	✓										
BP-3E-H1		8-11-99	1425	"	"	"	1	✓										
BP-3E-F1		8-11-99	1125	"	"	"	1	✓										

SAMPLER: DC, JBW, DT, JT, JM		SHIPMENT METHOD:		AIRBILL NO.:	
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER					
1. RELINQUISHED BY: DATE		2. RELINQUISHED BY: DATE		3. RELINQUISHED BY: DATE	
SIGNATURE: [Signature]		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	
1. RECEIVED BY: DATE		2. RECEIVED BY: DATE		3. RECEIVED BY: DATE	
SIGNATURE: [Signature]		SIGNATURE:		SIGNATURE:	
PRINTED NAME/COMPANY: Janet Fletcher, Rick McElHern		PRINTED NAME/COMPANY:		PRINTED NAME/COMPANY:	

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST Gamma Spec *	LAB JOB NO. 995483							
COMPANY: Pioneer Technical Services		PROJECT NAME/NUMBER: Riley Pass - 3806														
SEND REPORT TO: Jodi Belanger-Woods		BILLING INFORMATION														
ADDRESS: 63 1/2 West Broadway P.O. Box 3445 Butte, Montana 59701		BILL TO: ADDRESS: PHONE: FAX:														
PHONE: 406-782-782-5177		PO NO.:														
FAX: 406-782-5866																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS									
5011530	RP-SE-G2	8-11-99	1745	sed.	4oz.gl.	NONE	1	✓							* W235 : R226	
5011514	RP-SE-I1	8-12-99	1100	"	"	"	1	✓								
5011515	RP-SE-I2	8-11-99	1355	"	"	"	1	✓								
5011526	RP-SS-B1	8-11-99	0930	soil	"	"	1	✓								
5011512	RP-SE-H3	8-12-99	1620	sed.	"	"	1	✓							PQ# 9441	
5011524	RP-SE-SP7	8-12-99	1315	"	"	"	1	✓							Please reference	
5011522	RP-SE-SP5	8-12-99	1444	"	"	"	1	✓							PO# 77	
5011534	RP-SS-I1	8-11-99	1515	soil	"	"	1	✓							Invoice	
5011527	RP-SS-B2	8-12-99	1830	"	"	"	1	✓								
5011520	RP-SE-SP3	8-12-99	1630	sed	"	"	1	✓								
SAMPLER: DC, JBC, JF, DT, JM		SHIPMENT METHOD: Airborne					AIRBILL NO.: 6708243161									
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																
1. RELINQUISHED BY:		DATE	2. RELINQUISHED BY:		DATE	3. RELINQUISHED BY:		DATE								
SIGNATURE: Dawn Clark		8/16/99	SIGNATURE: Betty O'Donnell		8/17/99	SIGNATURE:										
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer		TIME 1230	PRINTED NAME/COMPANY: Betty O'Donnell		TIME 1100	PRINTED NAME/COMPANY:		TIME								
1. RECEIVED BY:		DATE	2. RECEIVED BY:		DATE	3. RECEIVED BY:		DATE								
SIGNATURE: Janet Fletcher-Ries		08-16-99	SIGNATURE: Michelle Poulos		8/18/99	SIGNATURE:										
PRINTED NAME/COMPANY: Janet Fletcher-Ries MSE/HCM		TIME 1235	PRINTED NAME/COMPANY: Michelle Poulos / CORE		TIME 1110	PRINTED NAME/COMPANY:		TIME								

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: Pioneer Technical Services			PROJECT NAME/NUMBER: Riley Pass - 38010															
SEND REPORT TO: Jed Beinner - Woods			BILLING INFORMATION															
ADDRESS: 63 1/2 West Broadway P.O. Box 3445 Butte, Montana 59701			BILL TO: ADDRESS: PHONE: FAX: PO NO.:															
PHONE: 406-924-1823			PHONE:															
FAX: 406-782-3846			FAX:															
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS											
	RP-SE-304	8-12-99	11:00	sed	4oz. pl.	None	1	✓								* 11235 + Ra 226		
	RP-SE-301	8-12-99	11:25	"	"	"	1	✓										
	RP-SE-61	8-11-99	1725	"	"	"	1	✓										
	RP-SE-71	8-11-99	1710	"	"	"	1	✓										
	RP-SS-42	8-12-99	1455	soil	"	"	1	✓										
	RP-SS-113	8-12-99	1440	"	"	"	1	✓										
	RP-SS-62	8-12-99	1150	"	"	"	1	✓										
	RP-SS-41	8-12-99	1415	"	"	"	1	✓										
	RP-SS-12	8-11-99	1240	"	"	"	1	✓										
	RP-SE-114	8-12-99	1550	sed.	"	"	1	✓										

SAMPLER: DC, JSW, DT, JF, JM		SHIPMENT METHOD:		AIRBILL NO.:							
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER											
1. RELINQUISHED BY: SIGNATURE: Dawn Clark		DATE: 8/16/99		2. RELINQUISHED BY: SIGNATURE:		DATE:		3. RELINQUISHED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: Dawn Clark		TIME: 1230		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	
1. RECEIVED BY: SIGNATURE: Janet Fletcher-Rui		DATE: 8/16/99		2. RECEIVED BY: SIGNATURE:		DATE:		3. RECEIVED BY: SIGNATURE:		DATE:	
PRINTED NAME/COMPANY: Janet Fletcher-Rui		TIME: 1235		PRINTED NAME/COMPANY:		TIME:		PRINTED NAME/COMPANY:		TIME:	

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CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO.
COMPANY: <u>Pioneer Technical Services</u>		PROJECT NAME/NUMBER: <u>Riley Pass - 3806</u>																
SEND REPORT TO: <u>Jodi Belanger-Woods</u>		BILLING INFORMATION																
ADDRESS: <u>63 1/2 West Broadway</u> <u>P.O. Box 3445</u> <u>Butte MT 59701</u>		BILL TO:																
PHONE: <u>406-782-5177</u>		PHONE:																
FAX: <u>406-782-5866</u>		FAX: PO NO.:																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	REMARKS / PRECAUTIONS											
W035244	RP-SW-SP1	8-12-99	1025	water	1L	HNO3	1	✓								* RAZZLE: 1235		
W035245	RP-SW-SP2	8-12-99	1100	water	1L	HNO3	1	✓										
W035246	RP-SW-SP3	8-12-99	1430	"	"	"	1	✓										
W035247	RP-SW-SP4	8-12-99	1600	"	"	"	1	✓								POT# 16-9441		
W035248	RP-SW-SP5	8-12-99	1444	"	"	"	1	✓										
W035249	RP-SW-SP6	8-12-99	1400	"	"	"	1	✓								Please reference POT# on invoice		
W035250	RP-SW-SP7	8-12-99	1315	"	"	"	1	✓										
W035251	RP-SW-SP8	8-12-99	1225	"	"	"	1	✓										
W035252	RP-SW-X1	8-12-99	1800	"	"	"	1	✓										
W035253	RP-SW-X1	8-12-99	1100	"	"	"	1	✓										
SAMPLER: <u>DT, DC, JBW, JF, JM</u>		SHIPMENT METHOD: <u>Airborne</u>					AIRBILL NO.: <u>6708243264</u>											
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																		
1. RELINQUISHED BY:		DATE	2. RELINQUISHED BY:		DATE	3. RELINQUISHED BY:		DATE										
SIGNATURE: <u>Down Clark</u>		8/16/99	SIGNATURE: <u>Beth O'Donnell</u>		8/17/99	SIGNATURE:												
PRINTED NAME/COMPANY: <u>DOWN CLARK / Pioneer</u>		TIME: <u>1230</u>	PRINTED NAME/COMPANY: <u>Beth O'Donnell</u>		TIME: <u>1100</u>	PRINTED NAME/COMPANY:		TIME										
1. RECEIVED BY:		DATE	2. RECEIVED BY:		DATE	3. RECEIVED BY:		DATE										
SIGNATURE: <u>Jana Stetson-Rub</u>		8/17/99	SIGNATURE: <u>Michelle Bueh</u>		8/18/99	SIGNATURE:												
PRINTED NAME/COMPANY: <u>MSE/HCN Lab Jener Stetson-Rub</u>		TIME: <u>1235</u>	PRINTED NAME/COMPANY: <u>Michelle Bueh / CORE</u>		TIME: <u>1110</u>	PRINTED NAME/COMPANY:		TIME										

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(512) 289-2673 Fax (512) 289-2471

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(732) 225-6700 Fax (732) 225-6777

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Houston, TX 77040
(713) 600-5545

☐ Houston, TX (Pet)
8210 Mosley Road
Houston, TX 77075
(713) 943-2776 Fax (713) 943-2846

☐ Indianapolis, IN
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Indianapolis, IN 46268
(317) 875-5894 Fax (317) 872-6189

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3645 Beglis Parkway
Sulphur, LA 70663
(337) 583-4926 Fax (337) 583-4929

☐ Valparaiso, IN
2400 Cumberland Drive
Valparaiso, IN 46383
(219) 464-2280 Fax (219) 464-2050

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION							
COMPANY: Pioneer Technical Services		PROJECT NAME/NUMBER: Riley Pass - 3806								
SEND REPORT TO: Ed. Balazser-Woods		BILLING INFORMATION								
ADDRESS: 145 1/2 W Broadway PO Box 3445 Belle, VT 59701		BILL TO:								
		ADDRESS:								
PHONE: 406-782-5177		PHONE:								
FAX: 406-782-5846		FAX: PO NO.:								
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.	ANALYSIS / METHOD REQUEST <i>Cannabis Spec +</i>	LAB JOB NO. 		
	RD-SW-IS	8-12-99	1130	water	1L	HNO3			✓	* R-226 : 11233
SAMPLER: DT, JBW, DC, JF, JM			SHIPMENT METHOD:				AIRBILL NO.:			
REQUIRED TURNAROUND:* ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE OTHER _____										
1. RELINQUISHED BY: SIGNATURE: DAWN CLARK / Pioneer		DATE 8/16/99	2. RELINQUISHED BY: SIGNATURE:		DATE	3. RELINQUISHED BY: SIGNATURE:		DATE		
PRINTED NAME/COMPANY: DAWN CLARK / Pioneer		TIME 1230	PRINTED NAME/COMPANY:		TIME	PRINTED NAME/COMPANY:		TIME		
1. RECEIVED BY: SIGNATURE: Janet Kiehlke		DATE 08-16-99	2. RECEIVED BY: SIGNATURE:		DATE	3. RECEIVED BY: SIGNATURE:		DATE		
PRINTED NAME/COMPANY: Janet Kiehlke Lab Janet Kiehlke		TIME 1235	PRINTED NAME/COMPANY:		TIME	PRINTED NAME/COMPANY:		TIME		

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Aurora, CO 80014
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Carson, CA 90810-1640
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Edison, NJ 08837
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2000

CHAIN OF CUSTODY FORMS

PROJECT ID				ANALYSIS REQUESTED								REMARKS	
LABORATORY PERFORMING ANALYSIS				T-METALS	AGROCHEM	GRADATION	PH	DISSOLVED METALS					
SAMPLERS (Signature)													
SAMPLE ID	LAB ID	DATE	TIME										
RP-SS-K1	0008070006	8-2-00	0915	X							DISCRETE SAMPLE		
RP-SS-K1	0006	8-2-00	0915		X	X					COMP. OF K1 + K2A		
RP-SS-K2	0007	8-2-00	1005	X							COMP. OF K2A, K2B ~ K2C		
RP-SS-K2	0007	8-2-00	1005		X	X					COMP. OF K2B ~ K2C		
RP-SW-J2	0008070001	8-2-00	1400	X			X	X			GRAB		
RP-SE-K3	0008	8-2-00	1525	X		X					GRAB		
RP-SE-J1	0009	8-2-00	1500	X		X					GRAB		
RP-SE-J2	0010	8-2-00	1400	X		X					GRAB		
RP-SS-J2	0011	8-2-00	1425	X	X	X					COMP. OF J1A ~ J1B		
RP-SS-J1	0012	8-2-00	1330	X	X	X					DISCRETE GRAB		
RP-SE-J3	0013	8-2-00	1655	X		X					GRAB		
RP-SW-J3	0002	8-2-00	1655	X			X	X			GRAB		
RP-SE-X3	0014	8-3-00	0920	X		X					GRAB		
RP-SE-LZ	0015	8-3-00	1020	X		X					GRAB		
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME	COMMENTS * As, Cu, Na, Se, Pb, Th, U, V.					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY							
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED BY (Signature)		DATE	TIME						
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY							
RELINQUISHED BY (Signature)		DATE	TIME	RECEIVED FOR LAB BY (Signature)		DATE	TIME	MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673					
PRINTED NAME		COMPANY		PRINTED NAME		COMPANY							

PROJECT ID				ANALYSIS REQUESTED						REMARKS		
Riley Pass - Pioneer				* T-METALS	Gravitation	Agronomics	pH	Dissolved Metals				
LABORATORY PERFORMING ANALYSIS												
MSE-HKM & Midwest												
SAMPLERS (Signature)				Joe D. Belonger - Woods								
SAMPLE ID	LAB ID	DATE	TIME									
RP-SS-X3	000807Q018	8-3-00	0900	X	X						Grab	
RP-SS-L1	Q019	8-2-00	1840	X	X	X					COMP. OF LIA, LIB & LIC	
RP-SE-L1	Q018	8-2-00	1920	X	X						CRAB	
RP-SW-X2	000807Q003	8-3-00	1235	X			X	X				
RP-SS-X2	Q019	8-3-00	1220	X	X							
RP-SE-X2	Q020	8-3-00	1245	X	X							
RP-SW-SD1	Q004	8-3-00	1355	X			X	X				
RP-SW-SD2	Q005	8-3-00	1410	X			X	X				
RP-SS-X4	Q021	8-3-00	1725	X	X							
RP-SE-X4	Q022	8-3-00	1705	X	X							
RP-SE-K1	Q023	8-2-00	1130	X	X							
RP-SE-K2	Q024	8-2-00	1210	X	X							
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME		COMMENTS * As, Cu, Mo, Se, Pb, Th, U & V.		
Julie Flammang						8/4/00		1530				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
Julie Flammang						Pioneer						
RELINQUISHED BY (Signature)				RECEIVED BY (Signature)		DATE		TIME				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
RELINQUISHED BY (Signature)				RECEIVED FOR LAB BY (Signature)		DATE		TIME		MSE-HKM Laboratory Services P.O. Box 3588, Butte, MT 59702 PHONE: 406-494-1502 FAX: 406-494-1673		
				Karen Rees		8/4/00		15:30				
PRINTED NAME				PRINTED NAME		COMPANY		COMPANY				
				Karen Rees		HKM						

Oct 10/179

27 3

CHAIN OF CUSTODY RECORD

CUSTOMER INFORMATION			PROJECT INFORMATION				NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST Gamma Spectroscopy *										LAB JOB NO. L1749	
COMPANY <i>Pioneer Technical Services</i>			PROJECT NAME/NUMBER: <i>Riley Pass - 3806</i>																
SENT REPORT TO: <i>Jodi Belanger- Woods</i>			BILLING INFORMATION																
ADDRESS: <i>63 1/2 W. Broadway</i>			BILL TO:																
<i>P.O. Box 3445</i>			ADDRESS:																
<i>Bulle, MT 59702</i>			PHONE:																
PHONE: <i>406-782-5177</i>			FAX:																
FAX: <i>406-782-5866</i>			PO NO.:																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.											REMARKS / PRECAUTIONS		
RP-SS-K1	1	8-2-00	0915	solid	glass	None	1	✓									* U235 ~ Ra226		
RP-SS-K2		8-2-00	1005	solid	glass	None	1	✓									* U235 ~ Ra226		
RP-SE-K1			1130				1	✓											
RP-SE-K2			1210				1	✓											
RP-SW-J2			1400	water	HDPE	HNO3	2	✓											
RP-SE-K3			1525	solid			1	✓											
RP-SE-J1			1500	solid			1	✓											
RP-SE-J2			1400				1	✓											
RP-SS-J2			1425				1	✓											
RP-SS-J1			1330				1	✓											
SAMPLER: <i>JBW + JF</i>			SHIPMENT METHOD:				AIRBILL NO.:												
REQUIRED TURNAROUND: * ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																			
1. RELINQUISHED BY: <i>Julie Flammang</i>			DATE: <i>08/10/00</i>		2. RELINQUISHED BY: <i>Janet Fletcher-Rich</i>			DATE: <i>08/04</i>		3. RELINQUISHED BY:			DATE:						
SIGNATURE: <i>Julie Flammang</i>			TIME: <i>15:30</i>		PRINTED NAME/COMPANY: <i>HKM Lab</i>			TIME: <i>15:15</i>		PRINTED NAME/COMPANY:			TIME:						
1. RECEIVED BY: <i>Karen Rees</i>			DATE: <i>08/08/00</i>		2. RECEIVED BY: <i>Thomas Reid</i>			DATE: <i>8/5/00</i>		3. RECEIVED BY:			DATE:						
SIGNATURE: <i>Karen Rees</i>			TIME: <i>15:30</i>		PRINTED NAME/COMPANY: <i>ETL</i>			TIME: <i>1100</i>		PRINTED NAME/COMPANY:			TIME:						

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*RUSH TURNAROUND MAY REQUIRE SURCHARGE

CUSTOMER INFORMATION		PROJECT INFORMATION					NUMBER OF CONTAINERS	ANALYSIS / METHOD REQUEST										LAB JOB NO. L1749
COMPANY: Pioneer Technical Services		PROJECT NAME/NUMBER: Riley Pass - 3806																
AGENT REPORT TO: Ed. Belanger - Woods		BILLING INFORMATION																
ADDRESS: 163 1/2 W. Broadway		BILL TO:																
PO Box 3445		ADDRESS:																
Butte, MT 59702		PHONE:																
PHONE: 406-782-5177		FAX:																
FAX: 406-782-5866		PO NO.:																
SAMPLE NO.	SAMPLE DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	CONTAINER	PRESERV.											REMARKS / PRECAUTIONS	
P-SE-J3		8-2-00	1655	solid	Glass	NONE	1	✓									* U235 + Ra226	
P-SW-J3		8-2-00	1655	water	HDPE	HNO3	2	✓										
P-SE-X3		8-3-00	0920	solid	glass	NONE	1	✓										
P-SE-L2		8-3-00	1020	solid	glass	NONE	1	✓										
P-SS-X3		8-3-00	0900	solid	glass	NONE	1	✓										
P-SS-L1		8-2-00	1840	solid	glass	NONE	1	✓										
P-SE-L1		8-2-00	1920	solid	glass	NONE	1	✓										
P-SW-X2		8-3-00	1235	water	HDPE	HNO3	2	✓										
P-SE-X2		8-3-00	1245	solid	glass	NONE	1	✓										
SS		8-3-00	1220	solid	glass	NONE	1	✓										
AMPLER: JBW-JF		SHIPMENT METHOD:					AIRBILL NO.:											
REQUIRED TURNAROUND: ☐ SAME DAY ☐ 24 HOURS ☐ 48 HOURS ☐ 72 HOURS ☐ 5 DAYS ☐ 10 DAYS ☒ ROUTINE ☐ OTHER																		
1. RELINQUISHED BY: Julie Flamming		DATE: 08/03/00		2. RELINQUISHED BY: Julie Flamming-Rut		DATE: 08-04		3. RELINQUISHED BY:								DATE:		
SIGNATURE: Julie Flamming				SIGNATURE:				SIGNATURE:										
PRINTED NAME/COMPANY: Julie Flamming Pioneer		TIME:		PRINTED NAME/COMPANY: HKM Oak		TIME: 15:45		PRINTED NAME/COMPANY:								TIME:		
RECEIVED BY:		DATE: 8/03/00		2. RECEIVED BY: Karen Rees		DATE: 8/5/00		3. RECEIVED BY:								DATE:		
SIGNATURE: Karen Rees				SIGNATURE:				SIGNATURE:										
PRINTED NAME/COMPANY: Karen Rees / HKM		TIME: 15:30		PRINTED NAME/COMPANY: ETL		TIME: 11:00		PRINTED NAME/COMPANY:								TIME:		

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