



Shaw Environmental & Infrastructure, Inc.

RECEIVED DECEMBER 22, 2010

0099422

Geotechnical Laboratory
304 Directors Drive
Knoxville, TN 37923
(865) 690-3211

EBER 1110034

CERTIFICATE OF ANALYSIS

Mr. Michael Neely
CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – B6-06
Richland, WA 99352

December 22, 2010

This is the Certificate of Analysis for the following samples:

Shaw Project ID: Eberline Analytical
Shaw Project Number: 139736
Date Received by Lab: 11/12/10
Number of Samples: Nine (9)
Sample Type: Soil

I. Introduction/Case Narrative

Nine (9) soil samples were received by the Shaw Geotechnical Laboratory on November 12, 2010. The samples were submitted for determination of bulk density, moisture content, particle size, and saturated hydraulic conductivity/ permeability as listed on the Chain of Custody/Sample Analysis Request. The sample numbers received were B26J56, ~~B27JR7~~, B27JV7, B273M3, B28PN3, B28307, B26J55, B28KF7, B27985.

B29NR7

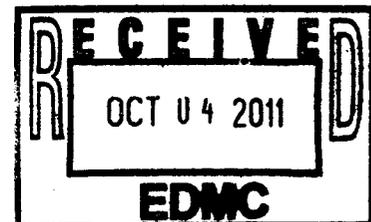
Please see Appendix A, Sample Number Cross Reference List; Appendix B, Analysis Results; Appendix C, Chain-of-Custody/Sample Receipt Records; and Appendix D, Nonconformance/Variance Reports.

see pg. 3

"I certify that this data package is in compliance the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the laboratory manager or a designee, as verified by the following signature."

Reviewed and Approved:

R. Gregory Bennett
Geotechnical Laboratory Manager, Technology Applications Group



Page 2 of 29
Report No.: EBER1110034
Mr. Michael Neely
Client: CH2M Hill Plateau Remediation Company
Shaw Project Name: Eberline Analytical
Shaw Project No.: 139736

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Knoxville, TN
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II. Analytical Results/Methodology

REFERENCES: United Nations, *Recommendations on the Transport of Dangerous Goods, Manual of Tests and Criteria*, third ed. New York, 1999. United States Army Corps of Engineers (USACE), Engineer Manual 1110-2-1906, *Laboratory Soils Testing*, appendix II, 1970; United States Environmental Protection Agency, SW846, *Test Methods for Examining Solid Waste, Physical/Chemical Methods*, 3rd ed., Nov 1986 (EPA SW-846). Annual Book of ASTM Standards, Section 4, Construction, Volume 04.08, *Soil and Rock (I)*, and Volume 04.09, *Soil and Rock (II)*, 2008. Shaw Environmental and infrastructure, Standard Operating Procedures.

Bulk Density	ASTM D 2937
Moisture Content of Soil and Rock	ASTM D 2216
Particle Size (sieve only).....	ASTM D 422
Permeability.....	ASTM D 5084

III. Quality Control

Quality control checks such as duplicates and spikes (QC samples), are not normally applicable to geotechnical testing. This is due largely to the inability of obtaining samples with known characteristics, the heterogenous nature of the samples, and quality control procedures built-in to the analytical method.

QC measures to ensure accuracy and precision of test results include the following:

- 100% verification of all numerical results - raw data entries, transcriptions and calculations entered by lab technicians are checked, recalculated and verified. Most data calculations are performed by computer programs.
- Data validation through test reasonableness - summaries of all test results for individual reports are reviewed to determine the overall reasonableness of data and to determine the presence of any data that may be considered outliers.
- Quality control procedures are built into most standardized geotechnical procedures. For example, liquid limit and plastic limit analyses call for re-analyses and specify acceptance criteria.
- Routine instrument calibration - instruments, gauges and equipment used in testing are calibrated on a routine basis. All instrument calibration follows ASTM or manufacturer guidelines.
- Maintenance of all past calibration records - calibration records and certification documents of all instruments, gauges and equipment are updated routinely and maintained in the Quality Control Coordinators Quality/Operations files.

- Certified and trained personnel - all technicians are trained in the application of standard laboratory procedures for geotechnical analyses as well as the quality assurance measures implemented by Shaw.
- Quantitative analyses frequently used in geotechnical/physical testing programs do not use QC tools common to wet chemistry or radiochemistry laboratories. Measures not employed in the analysis of samples reported in this report include: laboratory control samples (LCS), blanks, matrix spikes (MS), duplicate analyses, dilutions, digestions, correction factors, surrogate sample analyses, detection limit determinations, control charts, and/or tentatively identified compounds (TICs).

IV. Data Qualification

Sample B27JV8 found on COC# F10-196-149 was changed to ^{B29NR7}~~B27JR7~~ by written request of CH2M Hill Plateau Remediation Company. The Sample Issue Resolution form dated 12/2/2010 is attached in Appendix D. The updated sample number has been inserted into all of the corresponding data reports and the COC found herein.

RECEIVED DECEMBER 22, 2010

Appendix A
Sample Cross-Reference List

Page 4 of 29
Report No.: EBER1110034
Mr. Michael Neely
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Shaw Project No.: 139736

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SAMPLE NUMBER CROSS-REFERENCE LIST

Lab Sample ID	Client Sample ID	MATRIX
SEK 5143	B26J56	SOIL
SEK 5144	B27JR7	SOIL
SEK 5145	B27JV7	SOIL
SEK 5146	B273M3	SOIL
SEK 5147	B28PN3	SOIL
SEK 5148	B28307	SOIL
SEK 5149	B26J55	SOIL
SEK 5150	B28KF7	SOIL
SEK 5151	B27985	SOIL

RECEIVED DECEMBER 22, 2010

**Appendix B
Data Results**

Page 7 of 29
 Report No.: EBER1110034
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 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B26J56

Project No. 139736.10300000

Lab Sample No. SEK 5143

Moisture Content = 18.7%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	87.9%
	0.75"	19.000	59.4%
	0.375"	9.500	30.4%
	#4	4.750	25.2%
	#10	2.000	20.7%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	20.5%
	#40	0.425	20.2%
	#60	0.250	19.6%
	#100	0.149	19.2%
	#140	0.106	19.1%
	#200	0.075	19.0%

74.8% Gravel

6.1% Sand

19.0% Silt/Clay

Page 8 of 29
 Report No.: EBER1110034
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 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B27JR7

Project No. 139736.10300000

Lab Sample No. SEK 5144

Moisture Content = 49.1%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	99.9%
	#10	2.000	99.6%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	82.3%
	#40	0.425	72.7%
	#60	0.250	69.4%
	#100	0.149	65.4%
	#140	0.106	62.9%
	#200	0.075	59.5%

0.1% Gravel

40.3% Sand

59.5% Silt/Clay

Page 9 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
 Client: CH2M Hill Plateau Remediation Company
 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B27JV7

Project No. 139736.10300000

Lab Sample No. SEK 5145

Moisture Content = 6.3%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	77.4%
	0.75"	19.000	58.6%
	0.375"	9.500	40.5%
	#4	4.750	29.1%
	#10	2.000	20.2%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	11.8%
	#40	0.425	5.2%
	#60	0.250	2.5%
	#100	0.149	1.2%
	#140	0.106	0.9%
	#200	0.075	0.8%

70.9% Gravel

28.3% Sand

0.8% Silt/Clay

Page 10 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
 Client: CH2M Hill Plateau Remediation Company
 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B273M3

Project No. 139736.10300000

Lab Sample No. SEK 5146

Moisture Content = 23.1%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	100.0%
	#10	2.000	100.0%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	99.5%
	#40	0.425	98.3%
	#60	0.250	97.2%
	#100	0.149	96.1%
	#140	0.106	95.3%
	#200	0.075	93.7%

0.0% Gravel

6.3% Sand

93.7% Silt/Clay

Page 11 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
 Client: CH2M Hill Plateau Remediation Company
 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B28PN3

Project No. 139736.10300000

Lab Sample No. SEK 5147

Moisture Content = 28.2%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	99.8%
	#10	2.000	99.5%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	89.3%
	#40	0.425	83.6%
	#60	0.250	79.6%
	#100	0.149	71.1%
	#140	0.106	58.3%
	#200	0.075	46.1%

0.2% Gravel

53.7% Sand

46.1% Silt/Clay

Page 12 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
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 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B28307

Project No. 139736.10300000

Lab Sample No. SEK 5148

Moisture Content = 5.8%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	84.0%
	0.75"	19.000	67.4%
	0.375"	9.500	53.5%
	#4	4.750	38.0%
	#10	2.000	25.1%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	15.6%
	#40	0.425	10.6%
	#60	0.250	8.5%
	#100	0.149	6.9%
	#140	0.106	6.1%
	#200	0.075	5.3%

62.0% Gravel

32.6% Sand

5.3% Silt/Clay

Page 13 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
 Client: CH2M Hill Plateau Remediation Company
 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B26J55

Project No. 139736.10300000

Lab Sample No. SEK 5149

Moisture Content = 27.0%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	100.0%
	#10	2.000	100.0%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	99.9%
	#40	0.425	99.7%
	#60	0.250	99.1%
	#100	0.149	97.3%
	#140	0.106	91.3%
	#200	0.075	80.4%

0.0% Gravel

19.6% Sand

80.4% Silt/Clay

Page 14 of 29
 Report No.: EBER1110034
 Mr. Michael Neely
 Client: CH2M Hill Plateau Remediation Company
 Shaw Project Name: Eberline Analytical
 Shaw Project No.: 139736

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PARTICLE-SIZE DISTRIBUTION
ASTM D 422

Project Name Eberline

Field Sample No. B28KF7

Project No. 139736.10300000

Lab Sample No. SEK 5150

Moisture Content = 24.7%

SIEVE ANALYSIS

C O A R S E	Sieve No.	Diameter mm	Percent Finer
	3"	75.000	100.0%
	1.5"	37.500	100.0%
	0.75"	19.000	100.0%
	0.375"	9.500	100.0%
	#4	4.750	100.0%
	#10	2.000	100.0%

F I N E	Sieve No.	Diameter mm	Percent Finer
	#20	0.850	99.7%
	#40	0.425	98.4%
	#60	0.250	96.8%
	#100	0.149	94.5%
	#140	0.106	92.4%
	#200	0.075	89.1%

0.0% Gravel

10.9% Sand

89.1% Silt/Clay

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Appendix C
Chain of Custody Records

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

COLLECTOR BAILEY
SAMPLING LOCATION C7784 (199-82-16); 5 feet into RUM
ICE CHEST NO. GWS-029
SHIPPED TO Shaw Group
COMPANY CONTACT DYEKMAN, DL
TELEPHONE NO. 375-4688
PROJECT COORDINATOR DYEKMAN, DL
PROJECT DESIGNATION 100 Area Remedial Investigation/Feasibility Analysis - 100-BC Soils
FIELD LOGBOOK NO. ANE-N-SRS-3171
ACTUAL SAMPLE DEPTH 152.7'
OFFSITE PROPERTY NO. SEE PTR
PRICE CODE 8N
AIR QUALITY
METHOD OF SHIPMENT FEDERAL EXPRESS
BILL OF LADING/AIR BILL NO. 796439432460
SEE PTR

PRESERVATION	None	None
HOLDING TIME	6 Months	None
TYPE OF CONTAINER	Liner	Moisture Resistant
NO. OF CONTAINER(S)	1	1
VOLUME	1000g	200g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS D216;	Moisture Resistant

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
B26J56	SOIL	11-5-10	1450



23 of 33

CHAIN OF POSSESSION

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
De Bailey/SFR	11-5-10-1545	M0413-21	11/5/10-1545
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
M0-413-21	11/NOV 11 2010 1410	DW Broderick B. B.	NOV 11 2010 9:30
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
DW Broderick B. B.	NOV 11 2010 1410	FLO EX	11/12/10 1040
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME

SPECIAL INSTRUCTIONS

** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. ** Physical Properties laboratory: Conduct the hydraulic conductivity test (ASTM 5084 or 2434) as appropriate to the sample matrix.
 (1) Permeability - D2434 {Hydraulic Conductivity}; Bulk Density - D2937; Particle Size (Dry Sieve) - D422; Saturated Hydraulic Conductivity {Hydraulic Conductivity};



LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

CH2M Hill Plateau Remediation Company
 COLLECTOR: *Residue Rust Kuan Higawa*
 F10-196-149
 F10-196-149A (re 01/05/11)
 PRICE CODE: 8N
 DATA TURNAROUND: 45 Days / 45 Days
 PROJECT COORDINATOR: RADLOFF, AW
 SAF NO.: F10-196
 AIR QUALITY:

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 COMPANY CONTACT: DYKMAN, DL
 TELEPHONE NO.: 373-2530
 PROJECT DESIGNATION: 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Soils
 FIELD LOGBOOK NO.: *HWP-N-645-1 p. 19*
 ACTUAL SAMPLE DEPTH: *121.0 - 123.5*
 OFFSITE PROPERTY NO.: *SEE PTR*
 COA: 300204ES10
 METHOD OF SHIPMENT: FEDERAL EXPRESS
 BILL OF LADING/AIR BILL NO.: **796439432480**
 SEE PTR

COMPANY CONTACT	TELEPHONE NO.	PROJECT COORDINATOR	PRICE CODE	DATA TURNAROUND
DYKMAN, DL	373-2530	RADLOFF, AW	8N	45 Days / 45 Days
PROJECT DESIGNATION	FIELD LOGBOOK NO.	ACTUAL SAMPLE DEPTH	COA	METHOD OF SHIPMENT
300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Soils	<i>HWP-N-645-1 p. 19</i>	<i>121.0 - 123.5</i>	300204ES10	FEDERAL EXPRESS
OFFSITE PROPERTY NO.	SEE PTR	COA	300204ES10	METHOD OF SHIPMENT
<i>SEE PTR</i>	<i>SEE PTR</i>	<i>SEE PTR</i>	<i>SEE PTR</i>	<i>SEE PTR</i>

PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS	SAMPLE DATE	SAMPLE TIME
None	None	Liner	1	1000g	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	<i>11-8-10</i>	<i>0850</i>
None	None	Molting Resistance	200g				<i>N/A</i>

827JV6
 B29NR7 (re 12/22/10)
 SOIL
 MATRIX*
 SPECIAL HANDLING AND/OR STORAGE
 SIGN/PRINT NAMES
 RECEIVED BY/STORED IN: *SS4 RI 11-9-10*
 RECEIVED BY/STORED IN: *DW Broderick*
 RECEIVED BY/STORED IN: **FEDEx**
 RECEIVED BY/STORED IN: *11/12/10*

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>Harry Residue Rust Kuan Higawa</i>	<i>11-8-10/1630</i>	<i>SS4 RI 11-9-10</i>	<i>1630</i>
<i>DW Broderick</i>	<i>NOV 11 2010 9:00</i>	<i>DW Broderick</i>	<i>NOV 11 2010</i>
<i>DW Broderick</i>	<i>NOV 11 2010/9:00</i>	<i>DW Broderick</i>	<i>NOV 11 2010/9:00</i>

LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

SEK 5144

ORIGINAL

COLLECTOR
Reserve Post Koura Higashi

COMPANY CONTACT
DYKMAN, DL

TELEPHONE NO.
373-2530

PROJECT COORDINATOR
RADLOFF, AW

PRICE CODE
8N

DATA TURNAROUND
45 Days / 45 Days

SAMPLING LOCATION
C7660 (399-2-32); 1-017

PROJECT DESIGNATION
300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Soils

FIELD LOGBOOK NO.
300204ES10

SAF NO.
FI10-196

AIR QUALITY

METHOD OF SHIPMENT
FEDERAL EXPRESS

ICE CHEST NO.
6005-029

ACTUAL SAMPLE DEPTH
4N1E-N-645-1 1917 10.5 - 43.0

OFFSITE PROPERTY NO.

COA
300204ES10

BILL OF LADING/AIR BILL NO.
796439432460

SHIPPED TO
Shaw Group

SEE PTR

SEE PTR

MATRIX*
A=Air
DL=Drum
Liquids
DS=Drum
Solids
L=Liquid
O=Oil
S=Soil
SE=Sediment
T=Tissue
V=Vegetation
W=Water
WI=Wipe
X=Other

POSSIBLE SAMPLE HAZARDS/ REMARKS
Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

PRESERVATION
None
None

HOLDING TIME
None
None

TYPE OF CONTAINER
Liner
Moisture Resistant

NO. OF CONTAINER(S)
1

VOLUME
1000g
200g

SPECIAL HANDLING AND/OR STORAGE
SEE ITEM (1) IN SPECIAL INSTRUCTIONS 07/16. *RS 11/13/10*

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME	✓	W/A
251	SOIL	11-4-10	0802	✓	W/A
33					
33					

SEK 5145

CHAIN OF POSSESSION

SIGN/ PRINT NAMES

SPECIAL INSTRUCTIONS

RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME
<i>Larry Koura</i>	11-4-10 / 1200	<i>NO-413 SSOR-1</i>	11-4-10 / 1200
<i>DM Brotherton</i>	NOV 11 2010 09:00	<i>DM Brotherton</i>	NOV 11 2010 09:00
<i>DM Brotherton</i>	NOV 11 2010 14:00	<i>FEDEX</i>	
		<i>RECEIVED BY/STORED IN</i>	<i>DATE/TIME</i>
		<i>RECEIVED BY/STORED IN</i>	<i>DATE/TIME</i>
		<i>RECEIVED BY/STORED IN</i>	<i>DATE/TIME</i>

** The 300 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
(1) Bulk Density - D2937; Particle Size (Dry Sieve) - D422;

ORIGINAL

LABORATORY SECTION	RECEIVED BY	DATE/TIME	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD			

RECEIVED DECEMBER 22, 2010

CH2M Hill Plateau Remediation Company
 COLLECTOR: *Makler*
 SAMPLING LOCATION: C7629 (199-D6-3); Bottom unconfined aquifer; I-018
 ICE CHEST NO.: *CWS-029*
 SHIPPED TO: Shaw Group

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
 COMPANY CONTACT: DYEKMAN, DL
 TELEPHONE NO.: 373-2530
 PROJECT COORDINATOR: RADLOFF, AW
 SAF NO.: F10-214
 COA: 300110ES10
 BILL OF LADING/AIR BILL NO.: 796439432460
 SEE PTR

PROJECT DESIGNATION: 100 Area Remedial Investigation/Feasibility Analysis - 100-HR-3 - Sediment
 FIELD LOGBOOK NO.: *NAF-A-585-12(Pg 3) 581.84*
 ACTUAL SAMPLE DEPTH: *581.84*
 OFFSITE PROPERTY NO.:
 SEE PTR

COMPANY CONTACT: DYEKMAN, DL
 TELEPHONE NO.: 373-2530
 PROJECT COORDINATOR: RADLOFF, AW
 SAF NO.: F10-214
 COA: 300110ES10
 BILL OF LADING/AIR BILL NO.: 796439432460
 SEE PTR

PRICE CODE: 8N
 AIR QUALITY:
 METHOD OF SHIPMENT: FEDERAL EXPRESS
 DATA TURNAROUND: 45 Days / 45 Days
 PAGE 1 OF 1

PRESERVATION	HOLDING TIME	TYPE OF CONTAINER	NO. OF CONTAINER(S)	VOLUME	SAMPLE ANALYSIS
None	None	Liner	1	1000mL	SEE ITEM (1) IN SPECIAL INSTRUCTIONS
None	None	Moisture Resistant Cont.	1	200mL	Moisture Resistant Cont. D2216;

SAMPLE NO.	MATRIX*	SAMPLE DATE	SAMPLE TIME
26 of 33 B273M3	SOIL	11/9/10	0925



CHAIN OF POSSESSION	SIGN / PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 4 3 550	11/9/10-1130
RELINQUISHED BY/REMOVED FROM: <i>SSU-RI</i>		NOV 11 2010 0925	NOV 11 2010 0925
RELINQUISHED BY/REMOVED FROM: <i>DW Evolution</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
RELINQUISHED BY/REMOVED FROM: <i>Shaw Group</i>		NOV 11 2010 1400	NOV 11 2010 1400
LABORATORY SECTION: RECEIVED BY			
FINAL SAMPLE DISPOSITION: DISPOSAL METHOD			

SPECIAL INSTRUCTIONS

** The 100 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF.
 (1) Bulk Density - D2937; Saturated Hydraulic Conductivity; Permeability - D2434; Particle Size (Dry Sieve) - D422;

ORIGINAL

F10-196-100 PAGE 1 OF 1
 PRICE CODE 8N DATA TURNAROUND 45 Days / 45 Days
 AIR QUALITY METHOD OF SHIPMENT FEDERAL EXPRESS
 7964394 32460

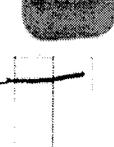
PROJECT COORDINATOR RADLOFF, AW
 SAF NO. F10-196
 COA 300204ES10
 BILL OF LADING/AIR BILL NO. SEE PTR

TELEPHONE NO. 373-2530
 PROJECT DESIGNATION 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Soils
 FIELD LOGBOOK NO. HNFV-505-2-A-54 36.0 38.5
 OFFSITE PROPERTY NO. SEE PTR

COMPANY CONTACT DYEKMAN, DL
 PROJECT COORDINATOR RADLOFF, AW
 PROJECT DESIGNATION 300 Area Remedial Investigation/Feasibility Analysis - 300-FF-5 Soils
 FIELD LOGBOOK NO. HNFV-505-2-A-54 36.0 38.5
 OFFSITE PROPERTY NO. SEE PTR

CH2M Hill Plateau Remediation Company
 COLLECTOR *Rosanne Rest Kauer Niyama*
 SAMPLING LOCATION C7653 (399-1-54); I-018
 ICE CHEST NO. *CWS-029*
 SHIPPED TO Shaw Group

PRESERVATION	None
HOLDING TIME	None
TYPE OF CONTAINER	Liner
NO. OF CONTAINER(S)	1
VOLUME	1000g
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS D2216;



POSSIBLE SAMPLE HAZARDS/REMARKS
 Contains Radioactive Material at concentrations that may or may not be regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 5400.5 (1990/1993)

SPECIAL HANDLING AND/OR STORAGE

SAMPLE NO.	28 of 33
MATRIX*	SOIL
SAMPLE DATE	11-10-10
SAMPLE TIME	1200

CHAIN OF POSSESSION	SIGN / PRINT NAMES	DATE/TIME	SPECIAL INSTRUCTIONS
RELINQUISHED BY/REMOVED FROM <i>Larry Rest Kauer Temp Release</i>	RECEIVED BY/STORED IN <i>SSU-R1</i>	DATE/TIME <i>11-10-10 10:10</i>	** The CACN for WSCF Analytical is 401980.0** The 300 Area S&GRP Characterization and Monitoring Sampling and Analysis GKI applies to this SAF. (1) Bulk Density - D2937; Particle Size (Dry Sieve) - D422;
RELINQUISHED BY/REMOVED FROM <i>SSU-R1</i>	RECEIVED BY/STORED IN <i>DW...</i>	DATE/TIME <i>NOV 11 2010 09:00</i>	
RELINQUISHED BY/REMOVED FROM <i>BRS</i>	RECEIVED BY/STORED IN FEDEX	DATE/TIME <i>NOV 11 2010 14:00</i>	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN <i>[Signature]</i>	DATE/TIME <i>11/24/10 10:40</i>	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	
RELINQUISHED BY/REMOVED FROM	RECEIVED BY/STORED IN	DATE/TIME	
LABORATORY SECTION	TITLE	DATE/TIME	ORIGINAL
FINAL SAMPLE DISPOSITION	DISPOSED BY	DATE/TIME	

CH2M Hill Plateau Remediation Company

COLLECTOR
Garcia Aguilera, Ramirez

SAMPLING LOCATION
C7628 (199-D6-3); I-018

ICE CHEST NO.
6WS-029

SHIPPED TO
Shaw Group

COMPANY CONTACT
RADLOFF, A

TELEPHONE NO.
376-4554

PROJECT DESIGNATION
100 Area Remedial Investigation/Feasibility Analysis - 100-HR-3 - Sediment

FIELD LOGBOOK NO.
HNF-N-S85-12 P3
ACTUAL SAMPLE DEPTH
22.88060 5'-63.0'

OFFSITE PROPERTY NO.
SEE PTR

COMPANY CONTACT
RADLOFF, AW

PROJECT COORDINATOR
SAF NO. F10-214
COA 300110ES10

PRICE CODE
8N

AIR QUALITY
45 Days / 45 Days

METHOD OF SHIPMENT
FEDERAL EXPRESS

BILL OF LADING/AIR BILL NO.
7964394 32460

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST
F10-214-037

PAGE 1 OF 1

PRESERVATION	None	None	None
HOLDING TIME	None	None	None
TYPE OF CONTAINER	Liner	Moisture Resistant	1
NO. OF CONTAINER(S)	1	1000mL	200mL
VOLUME	1000mL	200mL	200mL
SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	Moisture Content - D216;	
SAMPLE DATE	11/05/10	1454	
SAMPLE TIME			

KS 10/28/10

SEK 5150

CHAIN OF POSSESSION	SIGN/ PRINT NAMES	RECEIVED BY/STORED IN	DATE/TIME
RELINQUISHED BY/REMOVED FROM J. Garcia	NO. 413 SSURI	NOV 11 2010	11/5/10 1600
RELINQUISHED BY/REMOVED FROM SSU-RI	DW Brodston	NOV 11 2010	09:00
RELINQUISHED BY/REMOVED FROM DW Brodston	FEDEX	NOV 11 2010	11/12/10 1040
RELINQUISHED BY/REMOVED FROM	J. Ramirez	NOV 11 2010	11/12/10 1040
RELINQUISHED BY/REMOVED FROM			
LABORATORY SECTION	RECEIVED BY	TITLE	DATE/TIME
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD	DISPOSED BY	DATE/TIME

RECEIVED DECEMBER 22, 2010

Appendix D
Nonconformance/Variance Reports

SAMPLE ISSUE RESOLUTION

SIR NUM SDR11-097
REV NUM 0
DATE INITIATED 12/2/2010

SAMPLE EVENT INFORMATION

SAF NUM(S) F10-196
OPERABLE UNIT(S) 300-FF-1, 300-FF-2, 300-FF-5
PROJECT(S) 300 AREA RI/FS
SAMPLE EVENT TITLE(S) 300 Area RI/FS
LABORATORY Shaw Group

SAMPLING INFORMATION

NUMBER OF SAMPLES 1
SAMPLE NUMBERS B27JV8
SAMPLE MATRIX SOIL
COLLECTION DATE 12/1/2010 - 12/1/2010
SDG NUM EBER1110034

ISSUE BACKGROUND

CLASS General Sample Management Direction
TYPE Sample Number Correction
DESCRIPTION COC# F10-196-149, Sample number B27JV8 is changed to B29NR7. This applies to SHAW data package only.

DISPOSITION

DESCRIPTION Returned to SDM for correction where possible.

JUSTIFICATION Impact on data quality objectives will be reviewed by the project during their data quality assessment process. 'SMR has been directed to close this SIR by Steve Trent. It should be noted that all approval signature requirements have been waived for this SIR per management direction. No further action is required. (01/07/2011)'

APPROVAL SIGNATURES

RADLOFF, AW
PROJECT COORDINATOR (PRINT/SIGN NAME) **DATE**

KEMNER, MARK L
TASK MANAGER (PRINT/SIGN NAME) **DATE**