0095594

SAF-RC-211
100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 100-F – Soil In-Process FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kathy Wendt H4-21 KW 4/20/11
INITIAL/DATE

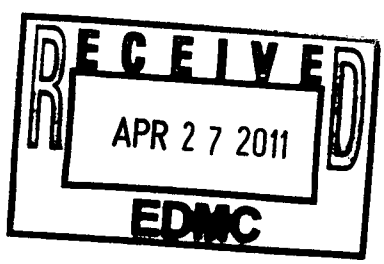
COMMENTS:

SDG D1109607 SAF-RC-211

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

Sample Location: 100-IU-2 600-309



Report Identification Number: D1109607
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: ~~RC-001~~ / RC-211-025
Sample Receipt Date: 04/06/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
04/04/2011	J1H0N1	1109607001	NIOSH 9002	64653	Bulk

I certify that this electronic image and all hardcopies produced from this image accurately represent the data and are in compliance with the contract specific requirements, both technically and for completeness, other than the conditions detailed above or in the sample data package narrative. Release, by submission through email, the data contained in this electronic image and the computer-readable EDD (as applicable), has been authorized by the laboratory Manager or the Manager's designee.

Name: Peter P. Steen
Title: Chemist
Date: April 13, 2011

Report Identification Number: D1109607
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-211-025
Sample Receipt Date: 04/06/2011

General Workorder Information: There is one sample in workorder 1109607, one sample in workorder 1109609, one sample in workorder 1109612, one sample in workorder 1109613, one sample in workorder 1109615, one sample in workorder 1109616, three samples in workorder 1109617, and three samples in workorder 1109743 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of these samples.

Method Summary: All samples were examined for homogeneity. Non-homogeneous samples were ground to ensure homogeneity. Distinct layers were analyzed separately. The samples were prepared and examined for asbestos fibers utilizing the procedures outlined in NIOSH method 9002 (4^{th} edition). A polarizing light microscope equipped with a 10x and a 16x eyepiece was used for the analysis. The area percentage of asbestos was estimated microscopically by a visual estimation of the fibers with a length-to-width aspect ratio of 3:1 or greater. If present, asbestos identities were confirmed with the appropriate refractive index oils applying dispersion staining techniques.

Sample Preparation: All samples were prepared in accordance with NIOSH method 9002 (4^{th} edition).

Initial and Continuing Calibration Verification Analysis: N/A

Initial and Continuing Calibration Blank Analysis: N/A

Method Blank Analysis: N/A

Dilution(s): N/A.

Laboratory Control Sample and Duplicate Analysis: One Laboratory Control Sample (LCS) was prepared and analyzed with the sample batch. The results were within the control limit of +/- one reporting range.

Replicate Analysis: Two samples were replicated with this analysis batch.

Flagging Codes: None

Nonconformance/Corrective Action Report (NC/CAR): N/A

Sample Calculation: Sample results are reported by a visual estimation of the area percentage of asbestos. If necessary, a gravimetric ashing procedure may be used to remove certain non-asbestos material

from the sample; a percentage calculation is used to correct for the removal of the non-asbestos material.

Miscellaneous Comments:

1109607001: Blackish, granular soil.
1109609001: Brown, granular soil.
1109612001: Tan, granular soil.
1109613001: White, powdery/fibrous material.
1109615001: Gray, granular soil.
1109616001: Gray, granular soil.
1109617001: Brown, granular soil.
1109617002: Brown, granular soil.
1109617003: Brown, granular soil.
1109743001: Brown, granular soil.
1109743002: Brown, granular soil.
1109743003: Brown, granular soil.

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Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-211-025
Sample Receipt Date: 04/06/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J1H0N1	1109607001	04/13/2011	<1	U	<1	U	<1	U
Required Detection Limit (RDL)			1		1		1	

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J1H0N1	1109607001	04/13/2011	<1	U	<1	U
Required Detection Limit (RDL)			1		1	

U - Parameter not detected above LOD
J - Parameter between LOD and RDL
** - Not provided or unable to calculate
NA - Not Applicable

QC Summary

Report Identification Number: D1109607
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF: RC-001 / RC-211-025
Sample Receipt Date: 04/06/2011

Batch ID: 64653

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC107804	LCS	Amosite	%per sample	50%	65%
QC107804	LCSD	Amosite	%per sample	60%	65%
QC107804	LCS	Chrysotile	%per sample	5%	10%
QC107804	LCSD	Chrysotile	%per sample	10%	10%

MB - Method Blank
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MSD - Matrix Spike Duplicate
LD - Laboratory Duplicate

NA - Not Applicable
ND - Parameter not detected above LOD

LCS, LCSD Percent Rec. = (Result / Target) * 100.0
MS, MSD Percent Rec. = ((Result – Parent) / Target) * 100.0

LCS, LCSD Relative Percent Diff. = ((|LCS – LCSD|) / ((LCS + LCSD)/2.0)) * 100.
MS, MSD Relative Percent Diff. = ((|MS – MSD|) / ((MS+ MSD)/2.0)) * 100.
LD Relative Percent Diff. = ((|Parent – LD|) / ((Parent + LD)/2.0)) * 100

2011-04-06-1109607-01

1109607

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

RC-211-025 Page 1 of 1

1109607

Collector: OJEDA, AJ	Company Contact: Jen Russell / Telephone No.: (509) 380-8093	Project Coordinator: KESSNER, JH	Price Code: 8C / Data Turnaround: 7 Days
Project Designation: 100-IU-2 & 100-IU-6 Miscellaneous Restoration Sites Near 1	Sampling Location: 100 IU 2 600-309 (3)	SAF No.: RC-211	
Ice Chest No.: WCH-11-039	Field Logbook No.: EL-1651 / COA: 0IU22DY000	Method of Shipment: FedEx	
Shipped To: ALS Laboratories - Salt Lake City	Offsite Property No.: NA	Bill of Lading/Air Bill No.: 7946 1357 2220	

POSSIBLE SAMPLE HAZARDS/REMARKS: None

Special Handling and/or Storage: None

Preservation	None
Type of Container	P
No. of Container(s)	1
Volume	250g
SAMPLE ANALYSIS	Asbestos-Bulk - NIOSH 9002

Sample No	Matrix *	Sample Date	Sample Time	Asbestos-Bulk
J1HON1	SOIL	4/4/11	0810	X

CHAIN OF POSSESSION: Relinquished By/Removed From	Date/Time	Received By/Stored In	Date/Time
AJ Ojeda [illegible]	4/4/11 1503	Jen Russell / Jen Russell	4/4/11 1503
Jen Russell / Jen Russell	4/4/11 1600	J. E. [illegible]	1600 4-4-11
J. E. [illegible] WCH	1030 4-5-11	FED EX	
FedEx		[illegible]	4/6/11 1015
[illegible]	4/6/11 1155		

SPECIAL INSTRUCTIONS

REVIEWED BY JRE DATE 4-5-11

Matrix *: S=Soil, SE=Sediment, SO=Solid, SL=Sludge, W=Water, O=Oil, A=Air, DS=Drum Solids, DL=Drum Liquids, T=Tissue, WI=Wipe, L=Liquid, V=Vegetation, X=Other

LABORATORY SECTION — Received By: / Title: / Date/Time:

FINAL SAMPLE DISPOSITION — Disposal Method: / Disposed By: / Date/Time:

WCH-EE-011