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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 4/14/11
INITIAL/DATE

COMMENTS:

SDG D1109167

SAF-RC-211

Rad only

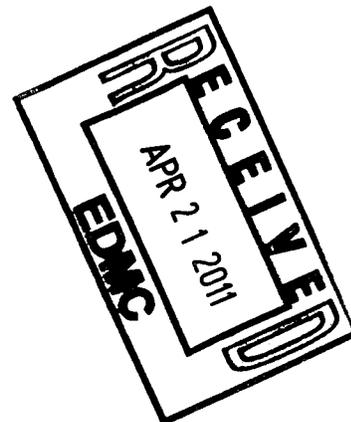
Chem only

Rad & Chem

Complete

Partial

Sample Location: 100-IU-2 600-300





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Cover

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Report Identification Number: D1109167
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM *RC-211 JD 4/1/11*
 SAF#: ~~RC-001~~ / RC-211-020
 Sample Receipt Date: 04/01/2011

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
03/30/2011	J1H046	1109167001	NIOSH 9002	64524	Bulk

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Name: Peter P. Steen
 Title: Chemist
 Date: April 08, 2011

Report Identification Number: D1109167
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
Laboratory Identification Number: DCHM
SAF#: RC-001 / RC-211-020
Sample Receipt Date: 04/01/2011

General Workorder Information: There are three samples in workorder 1109059, three samples in workorder 1109060, one sample in workorder 1109165, one sample in workorder 1109167, and four samples in workorder 1109168 which were analyzed for asbestos in bulk material. No problems were encountered with the receipt of this sample.

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 (4th 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 (4th 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: One sample was replicated with this analysis batch.

Flagging Codes: None

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



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Case Narrative

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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:

- 1109059001: Brown, granular soil.
- 1109059002: Brown, granular soil.
- 1109059003: Brown, granular soil.
- 1109060001: Brown, granular soil.
- 1109060002: Brown, granular soil.
- 1109060003: Brown, granular soil.
- 1109165001: Brown, granular soil.
- 1109167001: Brown, granular soil.
- 1109168001: Brown, granular soil.
- 1109168002: Brown, granular soil.
- 1109168003: Brown, granular soil.
- 1109168004: Brown, granular soil.



Results

Report Identification Number: D1109167
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF#: RC-001 / RC-211-020
 Sample Receipt Date: 04/01/2011

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %	Amosite %	Crocidolite %
J1H046	1109167001	04/08/2011	<1 U	<1 U	<1 U
Required Detection Limit (RDL)			1	1	1

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %	Anthophyllite %
J1H046	1109167001	04/08/2011	<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

Report Identification Number: D1109167
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Ken Way
 Laboratory Identification Number: DCHM
 SAF: RC-001 / RC-211-020
 Sample Receipt Date: 04/01/2011

Batch ID: 64524

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC10788	LCS	Amosite	%	ND	ND
QC10788	LCSD	Amosite	%	ND	ND
QC10788	LCS	Chrysotile	%	20	30
QC10788	LCSD	Chrysotile	%	30	30

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

$$\text{LCS, LCSD Percent Rec.} = (\text{Result} / \text{Target}) * 100.0$$

$$\text{MS, MSD Percent Rec.} = ((\text{Result} - \text{Parent}) / \text{Target}) * 100.0$$

$$\text{LCS, LCSD Relative Percent Diff.} = ((|\text{LCS} - \text{LCSD}|) / ((\text{LCS} + \text{LCSD})/2.0)) * 100.$$

$$\text{MS, MSD Relative Percent Diff.} = ((|\text{MS} - \text{MSD}|) / ((\text{MS} + \text{MSD})/2.0)) * 100.$$

$$\text{LD Relative Percent Diff.} = ((|\text{Parent} - \text{LD}|) / ((\text{Parent} + \text{LD})/2.0)) * 100$$

2011-04-01-1109167-01

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		RC-211-020	Page 1 of 1
1109167 OFDA, NJ Project Designation 100-1U-2 & 100-1U-6 Miscellaneous Restoration Sites Near 1 Ice Chest No. 7A-201 NA 3-30-11		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST Company Contact Jan Russell Telephone No. (509) 340-6502 Project Coordinator KESSNER, JH Price Code 8C	7 Days Date Turnaround 7 Days
Shipped To ALS Test America/Retention SLC POSSIBLE SAMPLE HAZARDS/REMARKS None		Field Notebook No. 100 IU 2 600-300 EL-1651 COA 0U22DY000	Method of Shipment Hand Delivered FEO EX Bill of Lading/Air Bill No. 7A-3-30-11 794597613500
Special Handling and/or Storage None		Preservation None	
Type of Container No. of Container(s) Volume 250mL		P 1 250mL	Adverse- Bulk - NIOSH 9002
SAMPLE ANALYSIS			
Sample No.	Matrix *	Sample Date	Sample Time
J1H046	SOIL	3-30-11	1355 X
CHAIN OF POSSESSION Relinquished By/Removed From H. J. Russell Date/Time 3-30-11 1445 Received By/Stored In Jan Russell Date/Time 3-30-11 1550 Relinquished By/Removed From Jan Russell Date/Time 3-30-11 1550 Received By/Stored In H. J. Russell Date/Time 3-30-11 1550 Relinquished By/Removed From A. Freer Date/Time 3-31-11 Received By/Stored In FEO EX Date/Time 3-30-11 Relinquished By/Removed From SC Date/Time 4/11/11 Received By/Stored In SC Date/Time 4/11/11 Relinquished By/Removed From SC Date/Time 4/11/11 Received By/Stored In SC Date/Time 4/11/11			
SPECIAL INSTRUCTIONS		Matrix *	
		S-Soil S-Sediment S-Schedule S-Schedule W-Water W-Water O-Oil A-Air US-Dum Solid UC-Dum Liquid T-Tissue W-Water L-Liquid X-Xother	
LABORATORY SECTION FINAL SAMPLE DISPOSITION WCH-EE-011		Received By Jan Russell Date/Time 3-30-11 1445	Disposed By Jan Russell Date/Time 3-30-11 1445

REVIEWED
BY
DATE
3-31-11