

SAF-RC-006
100-N Ancillary Facilities & 190-DR
Other Solid Sampling for ERDF Waste
Designation
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Tom Edmundson	X0-18	<u>KW 4/30/08</u> INITIAL/DATE
Amy Hood	X0-18	<u>KW 4/30/08</u> INITIAL/DATE

COMMENTS:

SDG 08I-0579-01

SAF-RC-006

Rad only

Chem only

Rad & Chem

Complete

Partial

RECEIVED
MAY 19 2008
EDMC

Waste Site(s): 183-ND Resin Disposal Pit



Report Identification Number: 08I-0579-01M
Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker / Robert Brounstein / Garrett Knutson / Brain Fauver

Laboratory Identification Number: DCHM, kw 4/30/08
SAF#: RC-001 / RD4MXX2F00

Sample Receipt Date: 16-APR-08



Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
14 Apr 2008	J16MM1	08I03333	NIOSH 9002	G083K00D	BULK

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Name: Peter P. Steen
Title: Chemist
Date: April 23, 2008



Case Narrative

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Report Identification Number: 08I-0579-01M
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker / Robert
Brounstein / Garrett Knutson / Brain Fauver
Laboratory Identification Number: DCHM
SAF#: RC-001 / RD4MXX2F00
Sample Receipt Date #: 16-APR-08

General Set Information: There were a total of two samples in set 08I-0563-01 and one sample in set 08I-0579-01 which was 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 (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 run.

Flagging Codes: None

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



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: Sample 08I03333: Black/gray, compacted/fibrous insulation material.



Results

Report Identification Number: 08I-0579-01M
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 Laboratory Identification Number: DCHM
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 Sample Receipt Date #: 16-APR-08

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile % Asbestos	Amosite % Asbestos	Crocidolite % Asbestos
J16MM1	08I03333	22 Apr 2008	10-<20	ND U	ND U
Limit of Detection (LOD)			<1	<1	<1
Required Detection Limit (RDL)					

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite % Asbestos	Anthophyllite % Asbestos
J16MM1	08I03333	22 Apr 2008	ND U	ND U
Limit of Detection (LOD)			<1	<1
Required Detection Limit (RDL)				

U - Parameter not detected above LOD.
 J - Parameter between LOD and RDL.



QC Summary

Report Identification Number: 08I-0579-01M

Subcontract Number: S003827A00

Name of Industrial Hygienist: Gwen Whatley / Ilene Strong / William Brasker/ Robert Brounstein / Garrett Knutson / Brain Fauver

Laboratory Identification Number: DCHM

SAF: RC-001 / RD4MXX2F00

Sample Receipt Date #: 16-APR-08

Batch ID: G083K00D

QC Sample ID	QC Type	Analyte	Units	Result	Parent Result	Target	Percent Rec.	Relative Percent Diff.
QC 100113	Bulk	Chrysotile	%	20		20	100	
QC 100113	Bulk	Chrysotile	%	30		20	150	

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

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

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

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

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

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

