

SAF-RC-006
100-N Area D4 – Other Solid Quick Turn
FINAL DATA PACKAGE

COMPLETE COPY OF DATA PACKAGE TO:

Kevin Finucane	X5-50	<u>KW 12/16/09</u> INITIAL/DATE
Mike Stankovich	X5-50	<u>KW 12/16/09</u> INITIAL/DATE

COMMENTS:

SDG D9346010 SAF-RC-006

Rad only Chem only Rad & Chem
 Complete Partial

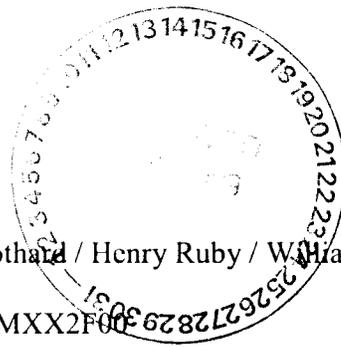
Waste Site(s): 1310-N Golfball Foundation

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Cover



Report Identification Number: D9346010
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Henry Ruby / William Brasker
 Laboratory Identification Number: DCHM
 SAF#: RC-006 / RC-006-225RD4MXX2F00
 Sample Receipt Date: 12/11/2009

Sample Information

Sample Date	Customer Sample Number	Laboratory Sample Number	Method	Analytical Batch Identification	Sample Matrix
12/09/2009	J19DK2	9346010001	NIOSH 9002	39575	Bulk
12/09/2009	J19DK3	9346010002	NIOSH 9002	39575	Bulk
12/09/2009	J19DK4	9346010003	NIOSH 9002	39575	Bulk

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Name: Peter P. Steen
 Title: Chemist
 Date: December 15, 2009



Case Narrative

Report Identification Number: D9346010
Subcontract Number: S003827A00
Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Henry Ruby / William Brasker
Laboratory Identification Number: DCHM
SAF#: RC-006/ RC-006-225RD4MXX2F00
Sample Receipt Date: 12/11/2009

General Workorder Information: There are three samples in workorder 9346010 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 (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

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.



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Case Narrative

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Miscellaneous Comments:

9346010001: Tan, micaceous/granular spray-on insulation.

9346010002: Tan, micaceous/granular spray-on insulation (80%) with black mastic (20%).

Insulation was ND for asbestos while the mastic contained 5 - <10% chrysotile asbestos. The asbestos content of the overall sample is 1 - <3% chrysotile asbestos.

9346010003: Brown, fibrous paper.

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 Sample Receipt Date: 12/11/2009

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Chrysotile %		Amosite %		Crocidolite %	
J19DK2	9346010001	12/15/2009	<1	U	<1	U	<1	U
J19DK3	9346010002	12/15/2009	2.0		<1	U	<1	U
J19DK4	9346010003	12/15/2009	<1	U	<1	U	<1	U
Required Detection Limit (RDL)				1		1		1

Customer Sample Number	Laboratory Sample Number	Date Analyzed	Actinolite/Tremolite %		Anthophyllite %	
J19DK2	9346010001	12/15/2009	<1	U	<1	U
J19DK3	9346010002	12/15/2009	<1	U	<1	U
J19DK4	9346010003	12/15/2009	<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: D9346010
 Subcontract Number: S003827A00
 Name of Industrial Hygienist: Gwen Whatley / Debbie Gothard / Henry Ruby / William Brasker
 Laboratory Identification Number: DCHM
 SAF: RC-006 / RC-006-225RD4MXX2F00
 Sample Receipt Date: 12/11/2009

Batch ID: 39575

QC Sample ID	QC Type	Analyte	Units	Result	Target
QC100116	LCS	Amosite	%	ND	ND
QC100116	LCSD	Amosite	%	ND	ND
QC100116	LCS	Chrysotile	%	10	20
QC100116	LCSD	Chrysotile	%	20	20

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

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. = $((|Parent - LD|) / ((Parent + LD)/2.0)) * 100$



Project Shipment Specific Client/Shipper's Notification of Sample Radioactivity

Please complete this form and include it with each shipment.

Sample Number/RCF Number: (RCF 23271 / see attached COC.)
 Shipment Date: 12.10.09

All samples shipped in this cooler have been screened for radioactivity. All samples have activity less than:

Total Activity	Gross Alpha Activity	Gross Beta/Gamma Activity
<1500 pCi/g	<500 pCi/sample	<1000 pCi/Sample

I certify that the samples shipped to DataChem are below the criteria above.

WCH Signature: Chant Kerosmer Date: 12/10/09

Any samples in the shipment which have activity above the levels specified above require DataChem approval prior to shipment in accordance with the DataChem SOP WA-DC-002.

DataChem Nuclear Material License UT 1800237

This release has been authorized by Robert P. Di Rienzo, DataChem Radiation Safety Officer on December 6, 2007.



2009-12-12-9346010-03

Washington Closure Hanford

12/10/2009 8:00:43AM

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Radiological Counting Facility

Analysis Report for RCF23271

J19DK2-4 SAF RC-006 100N/1310 GOLF BALL FOUNDATION

GAMMA SPECTRUM ANALYSIS

Sample Identification : RCF23271
 Sample Description : J19DK2-4 SAF RC-006 100N/1310 GOLF BALL FOUNDATION
 Sample Type : Non Standard Geo
 Unit :
 Sample Point :
 Sample Size : 1.000E+00 units
 Facility : Default
 Sample Taken On : 12/9/2009 2:55:00PM
 Acquisition Started : 12/10/2009 6:59:40AM
 Procedure : Non Standard Geometry
 Operator : RCT
 Detector Name : REGIE02
 Geometry : Non Standard Geo
 Live Time : 3600.0 seconds
 Real Time : 3653.2 seconds
 Dead Time : 1.46 %
 Peak Locate Threshold : 3.00
 Peak Locate Range (in channels) : 80 - 4096
 Peak Area Range (in channels) : 80 - 4096
 Identification Energy Tolerance : 1.300 keV
 Energy Calibration Used Done On : 11/3/2009
 Efficiency Calibration Used Done On : 11/22/2009
 Efficiency Calibration Description : REGE02 NSTD 11/11/09 EffCalSN 80398-238
 Sample Number : 33027

Qualitative Only
Non-Standard Geometry
 Calibrations for determining sample activity are geometry-specific. This sample does not conform to one of the currently calibrated geometries. Reported activities may differ from the actual sample activity for this reason.

INTERFERENCE CORRECTED REPORT

Nuclide Name	Nuclide Id Confidence	Wt mean Activity (pCi/units)	Wt mean Activity Uncertainty	Comments
CO-60	0.989	2.14E+02	1.75E+01	
RA-226d	0.619	2.26E+01	8.19E+00	