# SAF-RC-006
# 100-N Area D4 – Other
# FINAL DATA PACKAGE

**COMPLETE COPY OF DATA PACKAGE TO:**

Bill Rodgers X9-08 KW 11/20/12
INITIAL/DATE

**COMMENTS:**

**SDG MA05826 SAF-RC-006**

Rad only ☑ Chem only Rad & Chem

☑ Complete Partial

**Waste Site(s): 183-D Head House**

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

# Asbestos PLM
## Cover Sheet

Sample Date: November 14, 2012
Receipt Date: November 14, 2012
Reporting Date: November 15, 2012
SDG #: MA05826
SAF#: RC-006
Data Deliverable: 24 Hour Turn

| Customer Sample Number | Laboratory Sample Number | Analytical Batch Identification | Sample Matrix |
|---|---|---|---|
| J1R3D3 | MXCEK | 2319125 | OTHER |
| J1R3D4 | MXCEL | 2319125 | OTHER |
| J1R3D5 | MXCEM | 2319125 | OTHER |
| J1R3D6 | MXCEN | 2319125 | OTHER |
| J1R3D7 | MXCEP | 2319125 | OTHER |

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:

Dennis O'Neill
Project Manager

We certify that the following samples were prepared by Polarized Light Microscopy for asbestos and other fibrous constituents using TestAmerica's procedure, RL-ASB-002. The samples were acceptable upon receipt except where noted. Mountings of fibers observed and representative portions of the material were prepared in one or more appropriate refractive index liquids (1.550, 1.605, 1.680) and examined by Polarized Light Microscopy*. Estimates of concentration are made on an area basis. The results of the analysis apply only to the portions of materials analyzed and are summarized on the attached Asbestos PLM analysis data sheet. TestAmerica will dispose of all bulk samples after 60 days unless other arrangements are made.

*Some samples may contain fibers that are not visible by PLM and can only be discovered by electron microscopy techniques.

**TA Richland**
**Asbestos PLM**

| Analyst: | D. Petty | SOP Information | Method | Batch # | 2319125 |
|---|---|---|---|---|---|
| Analyst Signature: | | RL-ASB-002 | NIOSH 9002 | SDG # | MA05826 |
| Date: | 11/14/12 | Revision 2 | | | |
| **Sample ID** | **MXCEK1AA** | **MXCEL1AA** | **MXCEM1AA** | **MXCEN1AA** | **MXCEP1AA** |
| **Client ID** | J1R3D3 | J1R3D4 | J1R3D5 | J1R3D6 | J1R3D7 |
| Macroscopic examination | | | | | |
| Sample Description | caulk | tar paper | caulk | tar paper and stones | tar paper |
| Homogeneous | Y | Y | N | N | Y |
| Color | beige/white | black | white | black | black |
| % Visible Fibers | 0 | 60 | 0 | 60 | 60 |
| PLM Analysis | | | | | |
| Asbestiform Minerals | | | | | |
| % Chrysotyle | 8 | ND | ND | ND | ND |
| % Amosite | ND | ND | ND | ND | ND |
| % Crocidolite | ND | ND | ND | ND | ND |
| % Tremolite | ND | ND | ND | ND | ND |
| % Actinolite | ND | ND | ND | ND | ND |
| % Anthophylite | ND | ND | ND | ND | ND |
| **% Total Asbestos** | **8** | **ND** | **ND** | **ND** | **ND** |
| Other Materials | | | | | |
| % Cellulose | TRA | 52 | ND | 48 | 20 |
| % Glass Fibers | ND | ND | ND | 5 | 17 |
| % Other fibers | ND | ND | ND | ND | ND |
| % Non-fibrous | 92 | 48 | 100 | 47 | 63 |

***Comments:***

**Note:** "ND" stands for "None Detected". "TRA" stands for "<1%"

1 of 1 WHR #14-12

| Washington Closure Hanford | CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST | | RC-006-369 | Page 14 of 14 |
|---|---|---|---|---|
| **Collector** JR DeRoos | **Company Contact** Bill Rodgers | **Telephone No.** 206.251.7439 | **Project Coordinator** KESSNER, JH | **Price Code** 9K |
| **Project Designation** 100-N Area D4 - Other | **Sampling Location** 183-D Head House | | **SAF No.** RC-006 | **Data Turnaround** ~~7~~ Days 24 hr WHR 11-14-12 |
| **Ice Chest No.** NA | **Field Logbook No.** EL-1516-21 | **COA** RD4MXX2F00 | **Method of Shipment** Hand Deliver | |
| **Shipped To** Test America Richland (IH) | **Offsite Property No.** NA | | **Bill of Lading/Air Bill No.** ~~See OSPC~~ AS 11-14-12 NA | |

**POSSIBLE SAMPLE HAZARDS/REMARKS**
*ASBESTOS, BERYLLIUM*

**Special Handling and/or Storage**
*None*

J2K140436

MA055826
Due 11-15-12

J2K140436

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Preservation** | None | | | | | | | | | | |
| **Type of Container** | G/P | | | | | | | | | | |
| **No. of Container(s)** | 1 | | | | | | | | | | |
| **Volume** | 5g | | | | | | | | | | |
| | Asbestos-Bulk - NIOSH 9002 | | | | | | | | | | |

| Sample No. | Matrix * | Sample Date | Sample Time | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| J1R3D3 MXCEK | OTHER | 11-14-12 | 0824 | X | | | | | | | | |
| J1R3D4 MXCEL | OTHER | 11-14-12 | 0826 | X | | | | | | | | |
| J1R3D5 MXCEM | OTHER | 11-14-12 | 0829 | X | | | | | | | | |
| J1R3D6 MXCEN | OTHER | 11-14-12 | 0835 | X | | | | | | | | |
| J1R3D7 MXCEP | OTHER | 11-14-12 | 0840 | X | | | | | | | | |

| CHAIN OF POSSESSION | Sign/Print Names | |
|---|---|---|
| Relinquished By/Removed From | Date/Time 1400 11-14-12 | Received By/Stored In WHRodgers WHR Date/Time 1400 11-14-12 |
| Relinquished By/Removed From WHRodgers WHR | Date/Time 1445 11-14-12 | Received By/Stored In Birnham Date/Time 11-14-12 1445 |
| Relinquished By/Removed From | Date/Time 11-14-12 1500 | Received By/Stored In J. Bock J. Bock TAHR 11-14-12 Date/Time 1500 |
| Relinquished By/Removed From | Date/Time | Received By/Stored In Date/Time |
| 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**
None

REVIEWED BY DATE 11/14/12

Matrix *
S=Soil
SE=Sediment
SO=Solid
SI=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 |

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# Sample Check-in List

Date/Time Received: 11-14-12 / 1500 Container GM Screen Result: (Airlock) .02 Initials [RB]
Sample GM Screen Result (Sample Receiving) .02 Initials [RB]

Client: WCH SDG #: MA05826 NA [ ] SAF #: RC-006 NA [ ]

Lot Number: J2K140436

Chain of Custody # RC-006-369

Shipping Container ID: Hand Deliv. NA [ ] Air Bill Number: _____ NA [RB]

Samples received inside shipping container/cooler/box Yes [RB] Continue with 1 through 4. Initial appropriate response.

No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [RB]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [RB]
3. Cooler temperature: _____ °C NA [RB]
4. Vermiculite/packing materials is NA [RB] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [RB] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 5
7. Containers received: 5 x DAG
8. Sample holding times exceeded? NA [ ] Yes [ ] No [RB]
9. Samples have:
   - ____ tape
   - [RB] custody seals
   - ____ hazard labels
   - [RB] appropriate sample labels
10. Matrix:
    - [RB] A (FLT, Wipe, Solid, Soil)
    - ____ S (Air, Niosh 7400)
    - ____ I (Water)
    - ____ T (Biological, Ni-63)
11. Samples:
    - [RB] are in good condition
    - ____ are broken
    - ____ Other _____
    - ____ are leaking
    - ____ have air bubbles (Only for samples requiring no head space)
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [RB]
    (If acidification is necessary, then document sample ID, initial pH, amount of $HNO_3$ added and pH after addition on table overleaf)

    RPL ID # of preservative used : _____
13. Were any anomalies identified in sample receipt? Yes [ ] No [RB]
14. Description of anomalies (include sample numbers): NA [RB]

15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [ ]
*For documentation only. No corrective action needed.

16. Additional Information: _____

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Custodian: _____ Date: 11-14-12

Client Informed on _____ by _____ Person contacted _____

[ ] No action necessary; process as is

Project Manager _____ Date 11-15-12

| SAMPLE ID | Initial pH | Acid Amt | Final pH | SAMPLE ID | Initial pH | Acid Amt | Final pH |
|---|---|---|---|---|---|---|---|
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LS-023, Rev. 15, 07/11

See over for additional information.