From: Thomas, Craig <thomas.craig@epa.gov>
Sent: Monday, June 15, 2020 3:21 PM
To: Vernon, Portrice <vernon.portrice@epa.gov>
Subject: FW: EMSL report, COC for order(s) 041627348 (041627348 - Intermet / Wagner / 103X90260001S051606403)

From: Renner, Cordell <Cordell.Renner@tetratech.com>
Sent: Thursday, October 06, 2016 11:10 AM
To: Thomas, Craig <thomas.craig@epa.gov>
Subject: FW: EMSL report, COC for order(s) 041627348 (041627348 - Intermet / Wagner / 103X90260001S051606403)

Cordell C. Renner | Environmental Scientist
1S. Wacker Drive | Chicago, Illinois 60606 | www.tetratech.com
Direct: 312.201.7759 | Cell: 847.913.2904

Think Green - Not every email needs to be printed

From: EMSL (Cinnaminson) [mailto:cinnasblab@EMSL.com]
Sent: Monday, October 03, 2016 3:19 PM
To: Renner, Cordell <Cordell.Renner@tetratech.com>
Subject: EMSL report, COC for order(s) 041627348 (041627348 - Intermet / Wagner / 103X90260001S051606403)

Report, COC for order(s):
041627348 - Intermet / Wagner / 103X90260001S051606403

Please tell us how we are doing.

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EMSL Analytical, Inc. | 200 Route 130 North | Cinnaminson, NJ 08077
Phone: 856-858-4800 | Fax: 856-786-5974 | Toll Free: 800-220-3675
Lab Hours: Mon-Friday 7AM-10PM, Saturday 8AM-5PM, Sunday On-Call

Some of the resources EMSL Analytical, Inc. offers to our clients:
LABConnect | Order Products | Client Corner | Training | Additional Resources | Sampling Videos

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OrderID: 041627348

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*: 041627348

EMSL ANALYTICAL, INC
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (856) 858-4800
FAX: (856) 858-4960

Company : Tetra Tech	**EMSL-Bill to:** ☒ Same ☐ Different If Bill to is Different note instructions in Comments** *Third Party Billing requires written authorization from third party*
Street: 1275 E. Sangamon St.	
City: Decatur Chicago **State/Province: IL**	**Zip/Postal Code: 62521** **Country: United States**
Report To (Name): Cordell Renner	**Fax #:**
Telephone #: (847)-913-2904	**Email Address: cordell.renner@tetratech.com**
Project Name/Number: INTERMET/WAGNER / 103X9026 0001 S05 1606403	
Please Provide Results: ☐ Fax ☒ Email	**Purchase Order:** **U.S. State Samples Taken: Illinois**

Turnaround Time (TAT) Options* – Please Check

☐ 3 Hour ☐ 6 Hour ☒ 24 Hour ☐ 48 Hour ☐ 72 Hour ☐ 96 Hour ☐ 1 Week ☐ 2 Week

*For TEM Air 3 hr through 6 hr, please call ahead to schedule *There is a premium charge for 3 Hour TEM AHERA or EPA Level II TAT. You will be asked to sign an authorization form for this service Analysis completed in accordance with EMSL's Terms and Conditions located in the Analytical Price Guide.

PCM - Air
- ☐ NIOSH 7400 11
- ☐ w/OSHA 8hr. TWA

PLM - Bulk (reporting limit)
- ☐ PLM EPA 600/R-93/116 (<1%)
- ☐ PLM EPA NOB (<1%)

Point Count
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%)

Point Count w/Gravimetric
- ☐ 400 (<0.25%) ☐ 1000 (<0.1%) 1
- ☐ NYS 198.1 (friable in NY)
- ☐ NYS 198.6 NOB (non-friable-NY)
- ☐ NIOSH 9002 (<1%)

TEM – Air ☐ 4-4.5hr TAT (AHERA only)
- ☒ AHERA 40 CFR, Part 763
- ☐ NIOSH 7402
- ☐ EPA Level II
- ☐ ISO 10312

TEM - Bulk
- ☐ TEM EPA NOB
- ☐ NYS NOB 198.4 (non-friable-NY)
- ☐ Chatfield SOP
- ☒ TEM Mass Analysis-EPA 600 sec. 2.5 EPA/Milling Level B 0.1%

TEM – Water: EPA 100.2
- Fibers >10µm ☐ Waste ☐ Drinking
- All Fiber Sizes ☐ Waste ☐ Drinking

TEM- Dust
- ☐ Microvac - ASTM D 5755
- ☐ Wipe - ASTM D6480
- ☐ Carpet Sonication (EPA 600/J-93/167)

Soil/Rock/Vermiculite
- ☐ PLM CARB 435 - A (0.25% sensitivity)
- ☐ PLM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - B (0.1% sensitivity)
- ☐ TEM CARB 435 - C (0.01% sensitivity)
- ☐ EPA Protocol (Semi-Quantitative)
- ☐ EPA Protocol (Quantitative)

Other:
- ☐

☐ **Check For Positive Stop – Clearly Identify Homogenous Group**

Samplers Name: Karl Schultz **Samplers Signature:**

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
1	IW-EB-001	-	9/28/16
2	IW-EB-002	-	9/28/16
3	IW-FB-092816 ✓	-	9/28/16
4	IW-AS-001-092816 ✓	4888.02	9/28/16 / 1700
5	IW-AS-002-092816 ✓	3571.13	9/28/16 / 1625
6	IW-AS-003-092816 ✓	4434.24	9/28/16 / 1649
7	IW-AS-004-092816 ✓	4439.68	9/28/16 / 1656
8	IW-FB-092916	-	9/29/16

Client Sample # (s): **Total # of Samples:** 12

Relinquished (Client): Karl Schultz Karl Schultz **Date:** 09/30/16 **Time:** 1700

Received (Lab): PW FX **Date:** 10/1/16 **Time:** 11:50

Comments/Special Instructions:
11 AHERA
1 TEM EPA/Milling Level B 0.1%

Controlled Document – Asbestos COC – R2 – 1/12/2010

PAGE 1 OF 2 PAGES

EMSL ANALYTICAL, INC.
LABORATORY • PRODUCTS • TRAINING

Asbestos Chain of Custody

EMSL Order Number *(Lab Use Only)*:

041627348

EMSL ANALYTICAL, INC.
200 ROUTE 130 NORTH
CINNAMINSON, NJ 08077
PHONE: (856) 858-4800
FAX: (856) 858-4960

Additional Pages of the Chain of Custody are only necessary if needed for additional sample information

Sample #	Sample Description	Volume/Area (Air) HA # (Bulk)	Date/Time Sampled
9	IW-AS-004-092916	5161.20	9/29/16 / 1606
10	IW-FB-093016	-	9/30/16
11	IW-AS-004-093016	5400.70	9/30/16 /
12	IW-BA-15		9/30/16 / 1300

RECEIVED
CINNAMINSON, N.J.
2016 OCT -1 P 12:12

***Comments/Special Instructions:**

IW-BA-15 COULD POTENTIALLY BE FIRE BRICK.

Page 2 of 2 pages

EMSL Analytical, Inc.

200 Route 130 North Cinnaminson, NJ 08077
Tel/Fax: (800) 220-3675 / (856) 786-5974
http://www.EMSL.com / cinnasblab@EMSL.com

EMSL Order: 041627348
Customer ID: TEHC25
Customer PO:
Project ID:

Attention: Cordell Renner
Tetra Tech, Inc.
1275 E Sangamon St
Decatur, IL 62521

Phone: (312) 201-7700
Fax:
Received Date: 10/03/2016 9:00 AM
Analysis Date: 10/03/2016
Collected Date: 09/28/2016 - 09/30/2016

Project: Intermet / Wagner / 103X90260001S051606403

Test Report: Asbestos Fiber Analysis by Transmission Electron Microscopy (TEM) Performed by EPA 40 CFR Part 763 Appendix A to Subpart E

Sample	Location	Volume (Liters)	Area Analyzed (mm²)	Non Asb	Asbestos Type(s)	#Structures ≥0.5μ < 5μ	#Structures ≥5μ	Analytical Sensitivity (S/cc)	Asbestos Concentration (S/mm²)	Asbestos Concentration (S/cc)
4	IW- AS- 001-092816	4888.02	0.0512	0	None Detected			0.0015	<20.00	<0.0015
041627348-0001										
5	IW- AS- 002- 092816	3571.13	0.0512	0	None Detected			0.0021	<20.00	<0.0021
041627348-0002										
6	IW- AS- 003- 092816	4434.24	0.0512	0	None Detected			0.0017	<20.00	<0.0017
041627348-0003										
7	IW- AS- 004- 092816	4439.68	0.0512	0	None Detected			0.0017	<20.00	<0.0017
041627348-0004										
9	IW- AS- 004- 092916	5161.20	0.0512	0	None Detected			0.0015	<20.00	<0.0015
041627348-0005										
Gypsum fibers Detected										
11	IW- AS- 004- 093016	5400.70	0.0512	0	None Detected			0.0014	<20.00	<0.0014
041627348-0006										

Analyst(s)

Sandy Burany, Ph.D (6)

Benjamin Ellis, Laboratory Manager
or other approved signatory

EMSL maintains liability limited to cost of analysis. This report relates only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. Interpretation and use of test results are the responsibility of the client. This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. EMSL is not responsible for data reported in structures/cc, which is dependent on volume collected by non-laboratory personnel. Samples received in good condition unless otherwise noted. The test results meet the requirements of NELAC unless otherwise noted. Estimated accuracy, precision and uncertainty data available upon request.

Samples analyzed by EMSL Analytical, Inc. Cinnaminson, NJ NVLAP Lab Code 101048-0, AIHA-LAP, LLC-IHLAP Lab 100194, NYS ELAP 10872, NJ DEP 03036, PA ID# 68-00367

Initial report from: 10/03/2016 16:09:10