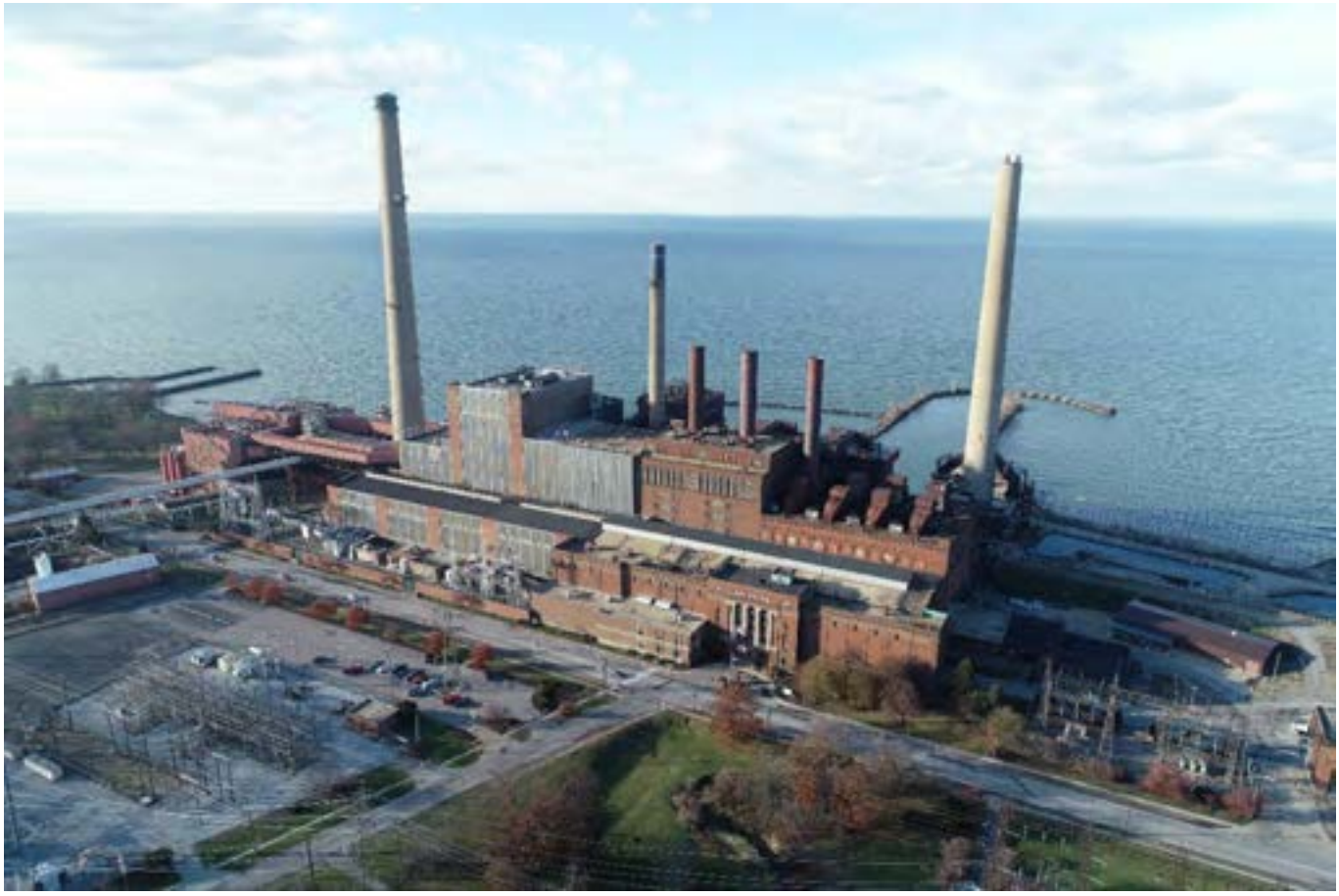
Final Implosion
December 19, 2024 Air Monitoring Data Set

Former Avon Lake Generating Station



Avon Lake
ENVIRONMENTAL REDEVELOPMENT GROUP, LLC.

25th

the deigan group
environmental managers/consultants

REV 0
December 27, 2024

Contents

Location #	Sample Media
1 thru 6 (All)	Asbestos, Respirable Dust, Total Dust, Mercury Particulates, and Metal Profile
3, 4, and 6	Above plus $PM_{2.5}$

LAKE ERIE

Thursday, December 19
Wind Direction (SSE) 7-9 mph

Unit 8 Precip
Unit 8 Stack
Unit 9 Stack
Boilers 11 & 12
LAKE ROAD
Powdermaker Ditch Tunnel Below Surface
Discharge Tunnel

1
2
3
4
5
6

Implosion Structures
Perimeter Air Sample Location
December 19, 2024 Implosion 5:35AM
Property Line
Unit 9 Building Tag
N
225' 0' 225'

REVISIONS

No.	Date	Description	By

Avon Lake
ENVIRONMENTAL REDEVELOPMENT GROUP, LLC.

28835 N. Herky Dr. Unit 120
Lake Bluff, IL 60044
the deigan group
environmental managers/consultants

Designed By: CB
Drawn By: CB
Approved By: GD

12/19/24 Air Monitoring Stations
December 19, 2024 Implosion

Plans Prepared For:
ALERG
33570 Lake Rd., Avon Lake, OH, 44012

Date 12/27/2024
21-071
1

12/27/2024

REV 0. **Table 1**

Total Dust Concentrations at Avon Lake Implosion Site
(Sampled 12/19/24)

Total Dust		
Station	Measured Concentration	OSHA PEL 8-hour TWA (Total Dust)
	mg/m^3	mg/m^3
1	<0.050	15.00
2	<0.052	15.00
3	<0.052	15.00
4	<0.049	15.00
5	0.62	15.00
6	<0.050	15.00

12/27/2024

REV 0. **Table 2**

Respirable Dust Concentrations at Avon Lake Implosion Site (Sampled 12/19/24)		
Respirable Dust		
Station	Measured Concentration	OSHA PEL 8-hour TWA (respirable fraction)
	mg/m^3	mg/m^3
1	<0.042	5.00
2	<0.042	5.00
3	<0.044	5.00
4	<0.042	5.00
5	<0.045	5.00
6	<0.041	5.00

Metal Concentrations at Avon Lake Implosion Site on 12/19/24

12/27/2024
REV 0. **Table 3**

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LEAD								CADMIUM							
Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (as Lead)	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (Total Particulate)
mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	0.05	0.05	<0.00051	<0.00052	<0.00049	<0.00051	<0.00056	<0.00051	0.005	0.010
SELENIUM								**VANADIUM**							
Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (as Selenium)	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	CAL/OHSA PEL 8-hour TWA (Repirable Dust)	ACGIH TLV 8-hour TWA (Inhalable Particulate Matter)
mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	0.200	0.200	<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	0.050	0.050
BARIUM								**ARSENIC**							
Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (as Barium)	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (as Arsenic)
mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	0.500	0.500	<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	0.010	0.010
CHROMIUM								**MERCURY**							
Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA (Inhalable Particulate Matter)	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	CAL/OHSA PEL 8-hour TWA	ACGIH TLV 8-hour TWA
mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
<0.0010	<0.0010	<0.00099	<0.0010	<0.0011	<0.0010	1.00	0.50	<0.00010	<0.00010	<0.00010	<0.00010	<0.00011	<0.00010	0.025	0.025

12/26/2024

REV 0. **Table 4**

Asbestos Concentrations at Avon Lake Implosion Site
(Sampled 12/19/24)

ASBESTOS		
Station	Measured Concentration	USEPA Building Occupancy Clearance Standard
	f/cc	f/cc
1	<0.0010	0.01
2	<0.0010	0.01
3	<0.0011	0.01
4	<0.0011	0.01
5	<0.0012	0.01
6	<0.0011	0.01

f/cc = fibers per cubic centimeter

PM 2.5 Concentrations at Avon Lake Implosion Site
(Sampled on 12/19/24)

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12/19/2024
REV 0. **Table 5**

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
1			0.010	0.000		0.007	5.00
2			0.009	0.000		0.006	5.00
3			0.008	0.000		0.005	5.00
4			0.008	0.000		0.005	5.00
5			0.007	0.000		0.005	5.00
6			0.007	0.000		0.006	5.00
7			0.007	0.000		0.006	5.00
8			0.007	0.000		0.006	5.00
9			0.006	0.000		0.006	5.00
10			0.006	0.000		0.006	5.00
11			0.006	0.000		0.006	5.00
12			0.006	0.000		0.006	5.00
13			0.006	0.000		0.006	5.00
14			0.006	0.000		0.006	5.00
15			0.005	0.000		0.006	5.00
16			0.005	0.000		0.006	5.00
17			0.005	0.000		0.005	5.00
18			0.005	0.000		0.005	5.00
19			0.005	0.000		0.006	5.00
20			0.005	0.000		0.006	5.00
21			0.005	0.000		0.007	5.00
22			0.005	0.000		0.006	5.00
23			0.005	0.000		0.006	5.00
24			0.005	0.000		0.006	5.00
25			0.005	0.000		0.006	5.00
26			0.005	0.000		0.007	5.00
27			0.006	0.000		0.007	5.00
28			0.005	0.000		0.007	5.00
29			0.005	0.000		0.007	5.00
30			0.005	0.000		0.007	5.00
31			0.005	0.000		0.007	5.00
32			0.005	0.000		0.007	5.00
33			0.005	0.000		0.007	5.00
34			0.005	0.000		0.007	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
35			0.005	0.000		0.007	5.00
36			0.005	0.000		0.007	5.00
37			0.005	0.000		0.007	5.00
38			0.005	0.000		0.008	5.00
39			0.005	0.000		0.008	5.00
40			0.005	0.000		0.008	5.00
41			0.006	0.000		0.008	5.00
42			0.006	0.000		0.008	5.00
43			0.005	0.000		0.008	5.00
44			0.006	0.000		0.008	5.00
45			0.006	0.000		0.008	5.00
46			0.005	0.000		0.008	5.00
47			0.005	0.000		0.008	5.00
48			0.005	0.000		0.008	5.00
49			0.005	0.000		0.008	5.00
50			0.006	0.000		0.008	5.00
51			0.006	0.000		0.008	5.00
52			0.006	0.000		0.008	5.00
53			0.006	0.000		0.008	5.00
54			0.007	0.000		0.008	5.00
55			0.007	0.000		0.008	5.00
56			0.007	0.000		0.008	5.00
57			0.007	0.000		0.008	5.00
58			0.007	0.000		0.009	5.00
59			0.007	0.000		0.009	5.00
60			0.007	0.000		0.009	5.00
61			0.006	0.000		0.009	5.00
62			0.006	0.000		0.008	5.00
63			0.006	0.000		0.008	5.00
64			0.006	0.000		0.009	5.00
65			0.006	0.000		0.009	5.00
66			0.006	0.000		0.009	5.00
67			0.006	0.000		0.009	5.00
68			0.006	0.000		0.009	5.00
69			0.006	0.000		0.009	5.00
70			0.006	0.000		0.009	5.00
71			0.006	0.000		0.009	5.00
72			0.006	0.000		0.009	5.00
73			0.006	0.000		0.009	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
74			0.006	0.000		0.008	5.00
75			0.006	0.000		0.009	5.00
76			0.006	0.000		0.009	5.00
77			0.006	0.000		0.009	5.00
78			0.006	0.000		0.009	5.00
79			0.007	0.000		0.008	5.00
80			0.006	0.000		0.009	5.00
81			0.007	0.000		0.009	5.00
82			0.007	0.000		0.009	5.00
83			0.006	0.000		0.009	5.00
84			0.006	0.000		0.008	5.00
85			0.006	0.000		0.008	5.00
86			0.006	0.000		0.009	5.00
87			0.006	0.000		0.009	5.00
88			0.006	0.000		0.009	5.00
89			0.006	0.000		0.009	5.00
90			0.006	0.000		0.009	5.00
91			0.006	0.000		0.009	5.00
92			0.006	0.000		0.009	5.00
93			0.006	0.000		0.009	5.00
94			0.005	0.000		0.009	5.00
95			0.006	0.000		0.009	5.00
96			0.006	0.000		0.009	5.00
97			0.006	0.000		0.009	5.00
98			0.006	0.000		0.009	5.00
99			0.006	0.000		0.009	5.00
100			0.006	0.000		0.009	5.00
101			0.006	0.000		0.009	5.00
102			0.006	0.000		0.009	5.00
103			0.006	0.000		0.009	5.00
104			0.006	0.000		0.008	5.00
105			0.006	0.000		0.009	5.00
106			0.006	0.000		0.009	5.00
107			0.006	0.000		0.009	5.00
108			0.006	0.000		0.008	5.00
109			0.006	0.000		0.008	5.00
110			0.006	0.000		0.008	5.00
111			0.006	0.000		0.009	5.00
112			0.006	0.000		0.009	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
113			0.006	0.000		0.008	5.00
114			0.006	0.000		0.008	5.00
115			0.006	0.000		0.008	5.00
116			0.006	0.000		0.008	5.00
117			0.006	0.000		0.008	5.00
118			0.006	0.000		0.008	5.00
119			0.006	0.000		0.008	5.00
120			0.006	0.000		0.009	5.00
121			0.006	0.000		0.009	5.00
122			0.006	0.000		0.009	5.00
123			0.006	0.000		0.009	5.00
124			0.006	0.000		0.009	5.00
125			0.006	0.000		0.009	5.00
126			0.006	0.000		0.009	5.00
127			0.006	0.000		0.009	5.00
128			0.006	0.000		0.009	5.00
129			0.006	0.000		0.009	5.00
130			0.006	0.000		0.009	5.00
131			0.006	0.000		0.009	5.00
132			0.006	0.000		0.009	5.00
133			0.006	0.000		0.009	5.00
134			0.006	0.000		0.009	5.00
135			0.006	0.000		0.009	5.00
136			0.006	0.000		0.009	5.00
137			0.006	0.000		0.009	5.00
138			0.006	0.000		0.009	5.00
139			0.006	0.000		0.009	5.00
140			0.006	0.000		0.009	5.00
141			0.006	0.000		0.009	5.00
142			0.006	0.000		0.009	5.00
143			0.006	0.000		0.009	5.00
144			0.006	0.000		0.009	5.00
145			0.006	0.000		0.009	5.00
146			0.006	0.000		0.009	5.00
147			0.006	0.000		0.009	5.00
148			0.006	0.000		0.009	5.00
149			0.006	0.000		0.009	5.00
150			0.006	0.000		0.009	5.00
151			0.006	0.000		0.009	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
152			0.006	0.001		0.009	5.00
153			0.006	0.000		0.009	5.00
154			0.006	0.000		0.009	5.00
155			0.006	0.000		0.009	5.00
156			0.006	0.000		0.009	5.00
157			0.006	0.000		0.009	5.00
158			0.006	0.000		0.009	5.00
159			0.006	0.000		0.009	5.00
160			0.006	0.000		0.009	5.00
161			0.006	0.000		0.009	5.00
162			0.006	0.000		0.010	5.00
163			0.006	0.000		0.008	5.00
164			0.006	0.000		0.009	5.00
165			0.006	0.000		0.009	5.00
166			0.006	0.000		0.009	5.00
167			0.006	0.001		0.009	5.00
168			0.006	0.001		0.008	5.00
169			0.006	0.001		0.008	5.00
170			0.006	0.000		0.008	5.00
171			0.007	0.000		0.008	5.00
172			0.006	0.000		0.008	5.00
173			0.006	0.000		0.008	5.00
174			0.006	0.000		0.008	5.00
175			0.006	0.000		0.008	5.00
176			0.006	0.000		0.008	5.00
177			0.006	0.000		0.008	5.00
178			0.006	0.003		0.008	5.00
179			0.006	0.004		0.008	5.00
180			0.006	0.001		0.008	5.00
181			0.006	0.000		0.008	5.00
182			0.006	0.000		0.008	5.00
183			0.006	0.001		0.008	5.00
184			0.006	0.005		0.008	5.00
185			0.006	0.001		0.008	5.00
186			0.005	0.004		0.008	5.00
187			0.005	0.000		0.008	5.00
188			0.005	0.000		0.008	5.00
189			0.005	0.000		0.008	5.00
190			0.005	0.000		0.008	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
191			0.005	0.000		0.008	5.00
192			0.005	0.003		0.009	5.00
193			0.005	0.009		0.008	5.00
194			0.005	0.001		0.008	5.00
195			0.005	0.000		0.009	5.00
196			0.005	0.000		0.009	5.00
197			0.005	0.000		0.009	5.00
198			0.005	0.001		0.009	5.00
199			0.005	0.014		0.009	5.00
200			0.005	0.023		0.009	5.00
201			0.005	0.001		0.009	5.00
202			0.005	0.001		0.009	5.00
203			0.005	0.000		0.009	5.00
204			0.005	0.001		0.009	5.00
205			0.005	0.001		0.009	5.00
206			0.005	0.003		0.009	5.00
207			0.005	0.006		0.009	5.00
208			0.005	0.000		0.009	5.00
209			0.005	0.000		0.009	5.00
210			0.005	0.001		0.009	5.00
211			0.005	0.000		0.009	5.00
212			0.005	0.001		0.009	5.00
213			0.006	0.000		0.009	5.00
214			0.006	0.001		0.010	5.00
215			0.006	0.000		0.010	5.00
216			0.006	0.000		0.010	5.00
217			0.006	0.000		0.010	5.00
218			0.006	0.000		0.010	5.00
219			0.006	0.000		0.009	5.00
220			0.006	0.000		0.010	5.00
221			0.006	0.000		0.010	5.00
222			0.006	0.002		0.010	5.00
223			0.006	0.002		0.010	5.00
224			0.006	0.000		0.010	5.00
225			0.006	0.004		0.010	5.00
226			0.006	0.001		0.010	5.00
227			0.006	-0.003		0.010	5.00
228			0.006	-0.003		0.010	5.00
229			0.006	-0.003		0.010	5.00

	PM 2.5						
	Station 1	Station 2	Station 3	Station 4	Station 5	Station 6	OSHA PEL
Time Range			3:18:33 - 11:16:33	3:13:15 - 11:11:15		3:45:10 - 11:43:10	8-hour TWA (respirable fraction)
Data Point	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3	mg/m^3
230			0.006	-0.003		0.010	5.00
231			0.006	-0.003		0.010	5.00
232			0.006	-0.003		0.010	5.00
233			0.006	-0.004		0.010	5.00
234			0.006	0.000		0.009	5.00
235			0.006	0.000		0.009	5.00
236			0.006	0.000		0.009	5.00
237			0.006	0.000		0.009	5.00
238			0.006	0.000		0.009	5.00
239			0.006	0.000		0.009	5.00
240			0.006	0.000		0.009	5.00

*As per TSI Technical Support, the Dust Trak Aerosal Monitor can drift and record negative (-) values when approaching 0.00 mg/m^3.

12/27/2024

REV 0. **Table 6**

Respirable Crystalline Silica (RCS): Quartz Concentrations at Avon Lake Implosion Site (Sampled 12/19/24)

Respirable Dust			
Station	Measured Concentration	OSHA PEL 8-hour TWA (respirable fraction)	ACGIH TLV 8-hour TWA (respirable fraction)
	ug/m^3	ug/m^3	ug/m^3
1	<4.2	50.00	25.00
2	<4.2	50.00	25.00
3	<4.4	50.00	25.00
4	<4.2	50.00	25.00
5	<4.5	50.00	25.00
6	<4.1	50.00	25.00

Avon Lake
ENVIRONMENTAL REDEVELOPMENT GROUP, LLC.

the deigan group
environmental managers/consultants

Attachment A—Lab Reports

Your Project #: DEIGAN/AVON LAKES

Attention: Jim Davis

CORE ENVIRONMENTAL SERVICES
3960 William Flinn Highway
Allison Park, PA
USA 15101

Report Date: 12/27/2024
Report #: R8461351
Version: 2 - Revision

ANALYTICAL REPORT – REVISED REPORT

BV LABS JOB #: C4BO126
Received: 12/20/2024, 00:00

Sample Matrix: Air
Samples Received: 7

Analyses	Quantity	Date Analyzed	Laboratory Method	Analytical Method
Subcontracted Analysis: TEM on Filter	7	12/26/2024		

Results relate only to the items tested.
Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

Encryption Key

Please direct all questions regarding this Analytical Report to your Project Manager.
Lejla Blagojevic, Client Service Rep
Email: lejla.blagojevic@bureauveritas.com
Phone# (248) 344-1770
==========
Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
This report is authorized by Jason Forbes, Director of Operations responsible for Michigan Industrial Hygiene laboratory operations.

Total Cover Pages : 1

ANALYTICAL RESULTS

Client ID:	ATEM-1	Matrix:	Air
BV Labs ID:	AMHX33	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	988.5

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

Client ID:	ATEM-2	Matrix:	Air
BV Labs ID:	AMHX34	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	996.3

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

Client ID:	ATEM-3	Matrix:	Air
BV Labs ID:	AMHX35	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	964.3

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

Client ID:	ATEM-4	Matrix:	Air
BV Labs ID:	AMHX36	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	963.2

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

Client ID:	ATEM-5	Matrix:	Air
BV Labs ID:	AMHX37	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	879.2

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

ANALYTICAL RESULTS

Client ID:	ATEM-6	Matrix:	Air
BV Labs ID:	AMHX38	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024	Air Volume (L):	955.8

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

Client ID:	ATEM-FIELD BLANK	Matrix:	Air
BV Labs ID:	AMHX39	Sample Media:	MCE for Asbestos, w/cowl 0.8um
Date Sampled:	12/19/2024		

ANALYTE	Result	RL	Test Method	Date Analyzed
	N/A	N/A		
Subcontract Parameter	ATTACHED	N/A		12/26/2024

RL = Reporting Limit

GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

REVISED REPORT

As requested on December 27, 2024 the sampling date has been updated from December 14, 2024 to December 19, 2024. This change is reflected on this revised report.

The TEM analysis was performed at the Scientific Analytical Institute, Inc. in Greensboro, NC. NY Lab ID No: 11922. NVLAP Lab Code: 200664-0, AIHA-LAP, LLC Laboratory ID: LAP-173190. Their final report is attached.

Results relate only to the items tested.

Airborne Asbestos Analysis by Transmission Electron Microscopy

NIOSH 7402
SAI Method T-SOP-006

Customer: Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Attn: Lejla Blagojevic

Project: C4BO126

Lab Order ID: **10071346**
Analysis: TNI
Date Received: 12/23/2024
Date Reported: 12/26/2024

Sample ID / *Lab Sample ID*	Description / *Lab Notes*	Volume (L) / *Area Analyzed (mm²)*	PCM Concentration (f/cc)*	Non-Asbestos Fiber Count	Asbestos Structures	Asbestos Fiber Count	Concentration (f/cc)
ATEM-1		988.5	N/A	0	None Detected		<0.0010
10071346_0001		0.380					
ATEM-2		996.3	N/A	0	None Detected		<0.0010
10071346_0002		0.380					
ATEM-3		964.3	N/A	0	None Detected		<0.0011
10071346_0003		0.380					
ATEM-4		963.2	N/A	0	None Detected		<0.0011
10071346_0004		0.380					
ATEM-5		879.2	N/A	2	**Total Asbestos:**	**1**	0.0012
					Amosite	*1*	*0.0012*
10071346_0005		0.380					
ATEM-6		955.8	N/A	0	None Detected		<0.0011
10071346_0006		0.380					
ATEM-FIELD BLANK		0	N/A	0	None Detected		-
10071346_0007		0.380					

*** PCM data not provided by client.**

Russell Shelton (7)
Analyst

Approved Signatory

Request for Laboratory Analytical Services

IMPORTANT: Date results required: 24-h
Rush charges authorized: Yes [x] No [ ]
Fax or [ ] E-mail results [x]
E-mail Address: lejla.blagojevic@bureauveritas.com

Page: 1 of 1
For Lab Use Only
Lab Project #:

Bureau Veritas North America, Inc.

Report results to:
Name: Lejla Blagojevic
Company: Bureau Veritas North America, Inc.
Mailing Address: 22345 Roethel Drive
City, State, Zip: Novi, MI 48375
Telephone No.: 770-590-6684
Fax No.:

Client Project Number: C4BO126

Send Invoice to: **P.O. No.** NLAB 32734
Name: Accounts Payable HSE
Compa: Bureau Veritas North America, Inc.
Addres: 16800 Greenspoint Park Drive, Suite 300S
City, State, Zip: Houston, TX 77060
lejla.blagojevic@bureauveritas.com
AP.293.INV.SUBMIT@bureauveritas.com
pamela.walker@bureauveritas.com

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)

Asbestos/Soil samples only: Which state are these from?

Client Sample Identification	Date Sampled	Time Sampled	Matrix/Media	Air Volume (Liters)	# of Jars	ANALYSIS REQUESTED (List each analyte on the lines below, multiple analytes per line)
ATEM-1	12/14/24		air	988.5	1	NIOSH 7402
ATEM-2	12/14/24		air	996.3	1	NIOSH 7402
ATEM-3	12/14/24		air	964.3	1	NIOSH 7402
ATEM-4	12/14/24		air	963.2	1	NIOSH 7402
ATEM-5	12/14/24		air	879.2	1	NIOSH 7402
ATEM-6	12/14/24		air	955.8	1	NIOSH 7402
ATEM-FIELD BLANK	12/14/24		air	0	1	NIOSH 7402

Collected by: _____ **Date/Time** _____ **Collector's Signat** LB **Date/Time** 12/20/24
Relinquished by: _____ **Date/Time** _____ **Received by:** _____ **Date/Time** _____
Relinquished by: _____ **Date/Time** _____ **Received by:** _____ **Date/Time** _____
Method of Shipment: _____ **Sample Condition on Receipt:** _____
Authorized by: _____ **Acceptable** _____ **Other:** _____
(Signature MUST accompany request) *(Explain)*

*Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to Bureau Veritas' standard Terms & Conditions. Signing of this Chain of Custody document is acknowledgment & acceptance of our terms available at http://www.bvlabs.com/terms-and-conditions

Detroit Lab
Ship to: 22345 Roethel Drive
Novi, MI 48375
248.344.2652
800.806.5887
Fax: 248.344.2655

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
888.576.7522
847.726.3320
Fax: 847.726.3323

Accepted ☑
Rejected ☐

yes 12/3 10:30am

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.
C4B0126

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-2652
FAX (248) 344-2655

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
FAX (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: 12 / 26 / 24
RUSH Charges Authorized? [X] Yes [ ] No
(If yes, Initial here) JD
[X] Email Results to JDavis@core-env.com

REPORT RESULTS TO
Name: Jim Davis, Dan Patovski
Client Job No.: Dorgan/Avon Lakes
Company: CORE Environmental
Dept.:
Mailing Address: 3640 William Flinn Hwy
City, State, Zip: Allison Park Pa 15101
Telephone No.: 412-487-6000
FAX No.:

BILLING / INVOICE INFORMATION
[ ] PO #
[ ] Call for Credit Card Information
[X] Direct Bill
Name: Same
Company: Same
Address: Same
City, State, Zip: Same

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)
Total Particulate - Niosh 0500
Asbestos By TEM - Niosh 7402
7 metal Profile - Pb, Cd, Cr, Ba, As, Se, V - Niosh 7303

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MINUTES SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Total Particulate	Asbestos By TEM Niosh 7402	Pb, Cd, Cr, Ba, As, Se, V Niosh 7303										FOR LAB USE ONLY
TD-6 -	12-14-24	486	PVC	992.3	X												
TD - Field Blank -		NA	PVC	NA	X												
ATEM-1 -		483	MCE 25mm	988.5		X											
ATEM-2 -		486	MCE	996.3		X											
ATEM-3 -		485	MCE	969.3		X											
ATEM-4 -		480	MCE	963.2		X											
ATEM-5 -		431	MCE	879.2		X											
ATEM-6 -		486	MCE	955.8		X											
ATEM-Field Blank -		NA	MCE	NA		X											
M-1 -		483	MCE	979.9			X										
M-2 -		486	MCE	954.2			X										
M-3 -		485	MCE	1012.0			X										

CHAIN OF CUSTODY
Collected by: Jim Davis (print)
Collector's Signature: Jim Davis
Relinquished by: Jim Davis — Date/Time 12-14-24/1110
Received by: — Date/Time
Relinquished by: — Date/Time
Received by: — Date/Time
Method of Shipment: UPS overnight
Received at Lab by: — Date/Time 12/20/24 1026
Sample Condition Upon Receipt: [X] Acceptable [ ] Other (explain)

Authorized by: Date

(Client Signature **MUST** Accompany Request)

Your Project #: DEIGAN/AVON LAKES

Attention: Jim Davis

CORE ENVIRONMENTAL SERVICES
3960 William Flinn Highway
Allison Park, PA
USA 15101

Report Date: 12/27/2024
Report #: R8461337
Version: 2 - Revision

ANALYTICAL REPORT – REVISED REPORT

BV LABS JOB #: C4BO146
Received: 12/20/2024, 00:00

Sample Matrix: Air
Samples Received: 28

Analyses	Quantity	Date Analyzed	Laboratory Method	Analytical Method
Mercury by OSHA ID-145 on Filter	7	12/26/2024	NOV2SOP-00010	OSHA ID 145
Metals, Routine, by NIOSH 7303 - Air	7	12/24/2024	NOV2SOP-00009	NIOSH 7303 Modified
Respirable Particulate-NIOSH 0600 - PVC	7	12/23/2024	NOV8SOP-00001	NIOSH 0600
Silica by NIOSH 7500-PVC filter (1)	7	12/23/2024	NOV5SOP-00001	NIOSH 7500
Total Quartz and Cristobalite	7	12/26/2024		
Silica Percentage in Particulate	7	12/23/2024		
Total Particulate by NIOSH 0500-PVC	7	12/23/2024	NOV8SOP-00001	NIOSH 0500

Results relate only to the items tested.

Reference Method suffix “m” indicates test methods incorporate validated modifications from specific reference methods to improve performance.

(1) Tridymite: A NIST-traceable standard is not available for tridymite. If tridymite is detected, the result is estimated and intended solely for information purposes.
Total (Quartz & Cristobalite): If one silica polymorph is positive, but the total is less than (<) the reporting limit, then the data user needs to decide which value is appropriate for their situation.

Encryption Key

Please direct all questions regarding this Analytical Report to your Project Manager.
Natelie Todd, Client Service Rep
Email: natelie.todd@bureauveritas.com
Phone# (248) 344-1770

==========

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports.
This report is authorized by Jason Forbes, Director of Operations responsible for Michigan Industrial Hygiene laboratory operations.

Total Cover Pages : 1

BV Labs Job #: C4BO146
Report Date: 12/27/2024

CORE ENVIRONMENTAL SERVICES
Client Project #: DEIGAN/AVON LAKES

ANALYTICAL RESULTS

Client ID:	RD-1	Matrix:	Air
BV Labs ID:	AMHY86	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1200.3

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.042	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<8.3	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<8.3		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	RD-2	Matrix:	Air
BV Labs ID:	AMHY87	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1190.7

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.042	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<8.4	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<8.4		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

BV Labs Job #: C4BO146
Report Date: 12/27/2024

CORE ENVIRONMENTAL SERVICES
Client Project #: DEIGAN/AVON LAKES

ANALYTICAL RESULTS

Client ID:	RD-3	Matrix:	Air
BV Labs ID:	AMHY88	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1144.6

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.044	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.4	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.4	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<8.7	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<8.7		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	RD-4	Matrix:	Air
BV Labs ID:	AMHY89	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1192

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.042	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.2	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<8.4	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<8.4		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

BV Labs Job #: C4BO146
Report Date: 12/27/2024

CORE ENVIRONMENTAL SERVICES
Client Project #: DEIGAN/AVON LAKES

ANALYTICAL RESULTS

Client ID:	RD-5	Matrix:	Air
BV Labs ID:	AMHY90	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1099.8

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.045	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.5	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.5	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<9.1	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<9.1		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	RD-6	Matrix:	Air
BV Labs ID:	AMHY91	Sample Media:	PVC 3-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1207.7

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	<0.041	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	<4.1	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	<4.1	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	<8.3	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	<8.3		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL RESULTS

Client ID: RD-FIELD BLANK | Matrix: Air
BV Labs ID: AMHY92 | Sample Media: PVC 3-piece 5um Tared
Date Sampled: 12/19/2024

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Respirable Particulate	<50	N/A	50	NIOSH 0600	12/23/2024

ANALYTE	Mass ug	Concentration ug/m3	%	RL ug	Test Method	Date Analyzed
Quartz	<5.0	N/A	--	5.0	NIOSH 7500	12/23/2024
Cristobalite	<5.0	N/A	--	5.0	NIOSH 7500	12/23/2024
Tridymite	<10	N/A	--	10	NIOSH 7500	12/23/2024
Total (Quartz and Cristobalite)	<10	N/A		10		12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID: TD-1 | Matrix: Air
BV Labs ID: AMHY93 | Sample Media: PVC 2-piece 5um Tared
Date Sampled: 12/19/2024 | Air Volume (L): 991.8

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	<0.050	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID: TD-2 | Matrix: Air
BV Labs ID: AMHY94 | Sample Media: PVC 2-piece 5um Tared
Date Sampled: 12/19/2024 | Air Volume (L): 952.6

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	<0.052	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID: TD-3 | Matrix: Air
BV Labs ID: AMHY95 | Sample Media: PVC 2-piece 5um Tared
Date Sampled: 12/19/2024 | Air Volume (L): 970.8

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	<0.052	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL RESULTS

Client ID:	TD-4	Matrix:	Air
BV Labs ID:	AMHY96	Sample Media:	PVC 2-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	1012

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	<0.049	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	TD-5	Matrix:	Air
BV Labs ID:	AMHY97	Sample Media:	PVC 2-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	875.6

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	550	0.62	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	TD-6	Matrix:	Air
BV Labs ID:	AMHY98	Sample Media:	PVC 2-piece 5um Tared
Date Sampled:	12/19/2024	Air Volume (L):	992.3

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	<0.050	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	TD-FIELD BLANK	Matrix:	Air
BV Labs ID:	AMHY99	Sample Media:	PVC 2-piece 5um Tared
Date Sampled:	12/19/2024		

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Particulate: Total	<50	N/A	50	NIOSH 0500	12/23/2024

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL RESULTS

Client ID:	M-1	Matrix:	Air
BV Labs ID:	AMHZ00	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	974.9

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00051	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	M-2	Matrix:	Air
BV Labs ID:	AMHZ01	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	954.2

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00052	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	M-3	Matrix:	Air
BV Labs ID:	AMHZ02	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	1012

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00049	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.00099	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

BV Labs Job #: C4BO146
Report Date: 12/27/2024

CORE ENVIRONMENTAL SERVICES
Client Project #: DEIGAN/AVON LAKES

ANALYTICAL RESULTS

Client ID:	M-4	Matrix:	Air
BV Labs ID:	AMHZ03	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	980

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00051	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	M-5	Matrix:	Air
BV Labs ID:	AMHZ04	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	885

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00056	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.0011	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	M-6	Matrix:	Air
BV Labs ID:	AMHZ05	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	989.8

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	<0.00051	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	<0.0010	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL RESULTS

Client ID:	M-FIELD BLANK	Matrix:	Air
BV Labs ID:	AMHZ06	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024		

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Arsenic (As)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024
Barium (Ba)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024
Cadmium (Cd)	<0.50	N/A	0.50	NIOSH 7303 Modified	12/24/2024
Chromium (Cr)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024
Lead (Pb)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024
Selenium (Se)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024
Vanadium (V)	<1.0	N/A	1.0	NIOSH 7303 Modified	12/24/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-1	Matrix:	Air
BV Labs ID:	AMHZ07	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	974.9

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00010	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-2	Matrix:	Air
BV Labs ID:	AMHZ08	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	971.2

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00010	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-3	Matrix:	Air
BV Labs ID:	AMHZ09	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	980.5

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00010	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL RESULTS

Client ID:	MP-4	Matrix:	Air
BV Labs ID:	AMHZ10	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	978.4

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00010	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-5	Matrix:	Air
BV Labs ID:	AMHZ11	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	872.1

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00011	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-6	Matrix:	Air
BV Labs ID:	AMHZ12	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024	Air Volume (L):	980.9

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	<0.00010	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

Client ID:	MP-FIELD BLANK	Matrix:	Air
BV Labs ID:	AMHZ13	Sample Media:	MCE Filter 37 mm .8 Untared
Date Sampled:	12/19/2024		

ANALYTE	Mass ug	Concentration mg/m3	RL ug	Test Method	Date Analyzed
Mercury (Hg)	<0.10	N/A	0.10	OSHA ID 145	12/26/2024

N/A = Not Applicable
RL = Reporting Limit

GENERAL COMMENTS

Unless otherwise noted below the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and /or do not adversely affect the reported results and 3) the industrial hygiene results have not been blank corrected.

The client provided their pertinent field sampling data on the analysis request paperwork submitted with the samples. Results apply to the sample as received.

REVISED REPORT

As requested on December 27, 2024 the sampling date has been updated from December 14, 2024 to December 19, 2024. This change is reflected on this revised report.

Sample AMHY92 [RD-FIELD BLANK] : Actual value of the respirable particulate blank was 10ug; sample results have been blank corrected.

Sample AMHY99 [TD-FIELD BLANK] : Actual value of the total particulate blank was 0 ug; therefore, blank correction was unnecessary.

Results relate only to the items tested.

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.
C4B0146

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-2652
FAX (248) 344-2655

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
FAX (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: 12 / 26 / 24
RUSH Charges Authorized? [X] Yes [ ] No
(If yes, Initial here) JD
[X] Email Results to Jdavis@core-env.com

REPORT RESULTS TO
Name: Jim Davis, Dan Patroski
Company: CORE Environmental
Mailing Address: 3690 William Flinn Hwy
City, State, Zip: Allison Park Pa 15101
Telephone No.: 412-487-6000 FAX No.:
Client Job No.: DeiganAshLakes
Dept.:

BILLING / INVOICE INFORMATION
[ ] PO # [ ] Call for Credit Card Information [X] Direct Bill
Name: Same
Company: Same
Address: Same
City, State, Zip: Same

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.) Send results to:
Jdavis@core-env.com
DPatroski@core-env.com
SAWright@Protectall-USA.com
Respirable Dust-NIOSH 7500/0500
Total ~~Dust~~ Particulate - NIOSH 0500

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MINUTES SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Silica, Respirable	Total Particulate	FOR LAB USE ONLY
RD-1	12-19-24	483	PVC	1200.3	X		
RD-2	12-19-24	486	PVC	1190.7	X		
RD-3	12-19-24	485	PVC	1194.6	X		
RD-4	12-19-24	480	PVC	1192.0	X		
RD-5	12-19-24	431	PVC	1099.8	X		
RD-6	12-19-24	480	PVC	1207.7	X		
RD-Field Blank	12-19-24	NA	PVC	NA	X		
TD-1	12-19-24	483	PVC	991.8		X	
TD-2	12-19-24	486	PVC	952.6		X	
TD-3	12-19-24	485	PVC	970.8		X	
TD-4	12-19-24	480	PVC	1012.0		X	
TD-5	12-19-24	431	PVC	875.6		X	

CHAIN OF CUSTODY
Collected by: Jim Davis (print)
Relinquished by: Jim Davis Date/Time 12-19-24/1400
Relinquished by: Date/Time
Method of Shipment: UPS overnight

Collector's Signature: Jimmy Davis
Received by: Date/Time
Received by: Date/Time
Received at Lab by: Date/Time 12/20/24 1026
Sample Condition Upon Receipt: [X] Acceptable [ ] Other (explain)

Authorized by: Date

(Client Signature **MUST** Accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-2652
FAX (248) 344-2655

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
FAX (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: 12 / 26 / 24
RUSH Charges Authorized? [X] Yes [ ] No
(If yes, Initial here) JD
[X] Email Results to Jdavis@core-env.com

REPORT RESULTS TO
Name: Jim Davis, Dan Patovski
Company: CORE Environmental
Mailing Address: 3640 William Flinn Hwy
City, State, Zip: Allison Park Pa 15101
Telephone No.: 412-487-6000
FAX No.:
Client Job No.: Dugan / Avon Lakes
Dept.:

BILLING / INVOICE INFORMATION
[ ] PO # [ ] Call for Credit Card Information [X] Direct Bill
Name: Same
Company: Same
Address: Same
City, State, Zip: Same

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)
Total Particulate - Niosh 0500
Asbestos By TEM - Niosh 7402
7 metal Profile - Pb, Cd, Cr, Ba, As, Se, V - Niosh 7303

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MINUTES SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Total Particulate	Asbestos By TEM Niosh 7402	Pb, Cd, Cr, Ba, As, Se, V Niosh 7303	FOR LAB USE ONLY
TD-6 -	12-19-24	486	PVC	992.3	X			
TD - Field Blank -		NA	PVC	NA	X			
ATEM-1 -		483	MCE 25mm	988.5		X		
ATEM-2 -		486	MCE	996.3		X		
ATEM-3 -		485	MCE	969.3		X		
ATEM-4 -		480	MCE	963.2		X		
ATEM-5 -		431	MCE	879.2		X		
ATEM-6 -		486	MCE	955.8		X		
ATEM-Field Blank -		NA	MCE	NA		X		
M-1 -		483	MCE	979.9			X	
M-2 -		486	MCE	954.2			X	
M-3 -		485	MCE	1012.0			X	

CHAIN OF CUSTODY
Collected by: Jim Davis (print)
Relinquished by: Jim Davis Date/Time 12-19-24/1410
Relinquished by: Date/Time
Method of Shipment: UPS overnight
Authorized by: Date

Collector's Signature: Jim Davis
Received by: Date/Time
Received by: Date/Time
Received at Lab by: Date/Time 12/20/24 1026
Sample Condition Upon Receipt: [X] Acceptable [ ] Other (explain)

(Client Signature **MUST** Accompany Request)

REQUEST FOR LABORATORY ANALYTICAL SERVICES

For Bureau Veritas Use Only
Bureau Veritas Lab Project No.

Bureau Veritas North America, Inc.

Detroit Lab
22345 Roethel Drive
Novi, MI 48375
(800) 806-5887
(248) 344-2652
FAX (248) 344-2655

Chicago Lab
95 Oakwood Road
Lake Zurich, IL 60047
(888) 576-7522
(847) 726-3320
FAX (847) 726-3323

RUSH ANALYSIS
CONTACT LAB IN ADVANCE
Need Results by: 12 / 26 / 24
RUSH Charges Authorized? [X] Yes [ ] No
(If yes, Initial here) JD
[ ] Email Results to JDavis@corecnv.com

REPORT RESULTS TO
Name
Company
Mailing Address — Same as Pg 1
City, State, Zip
Telephone No. | FAX No.
Client Job No.
Dept.

BILLING / INVOICE INFORMATION
[ ] PO # [ ] Call for Credit Card Information [X] Direct Bill
Name
Company — Same as Pg 1
Address
City, State, Zip

Special instructions and/or specific regulatory requirements: (method, limit of detection, etc.)
Mercury Particulate - OSHA 145F
7 metal profile - Pb, Cd, Cr, Ba, As, Se, V NIOSH 7303

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request. Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	MINUTES SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Pb, Cd, Cr, Ba, As, Se NIOSH 7303	Mercury Particulate OSHA 145F	FOR LAB USE ONLY
M-4 -	12-14-24	480	MCE	980.0	X		
M-5 -		431	MCE	885.0	X		
M-6 -		486	MCE	989.8	X		
M- Field Blank -		NA	MCE	NA	X		
MP-1 -		483	MCE	974.9		X	
MP-2 -		486	MCE	971.2		X	
MP-3 -		485	MCE	980.5		X	
MP-4 -		480	MCE	978.4		X	
MP-5 -		431	MCE	872.1		X	
MP-6 -		486	MCE	980.9		X	
MP- Field Blank -		NA	MCE	NA		X	

CHAIN OF CUSTODY
Collected by: J.M Davis (print) — Collector's Signature: Amy Davis
Relinquished by: J.M Davis — Date/Time 12-19-24/1410 — Received by: — Date/Time
Relinquished by: — Date/Time — Received by: — Date/Time
Method of Shipment: UPS overnight — Received at Lab by: — Date/Time 12/20/24 1026
Authorized by: — Date — Sample Condition Upon Receipt: [X] Acceptable [ ] Other (explain)

(Client Signature **MUST** Accompany Request)