

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 8-24-20
 Wind Direction: N 7 mph Contractor: ACV Enviro Temperature: 49°F
 Daily Work Activities: Ice Blasting - Demo of Station B east wall

Observations: Sunny

Equipment Used: Dust Trak 8530 SE - 8630095003
SW - 8630191406

Start Time: SE - 8:53am
SW - 9:03am

Dust Monitor Signature: Jeffrey B...

Baseline Reading SE - .057 mg/m³
SW - .058 mg/m³



Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:53	SE	.053	up	NO
10:03	SW	.061	down	NO
10:53	SE	.049	up	NO
11:03	SW	.06	down	NO
11:53	SE	.067	up	NO
12:03	SW	.081	down	NO
12:53	SE	.035	up	NO
13:03	SW	.037	down	NO
13:53	SE	.045	up	NO
14:03	SW	.073	down	NO
14:23	SE	.038	up	NO
15:03	SW	.047	down	NO
15:53	SE	.037	up	NO

SE - .041 mg/m³
 TWA: SW - .046 mg/m³
 Highest Concentration: SE - .081 mg/m³
 SW - .125 mg/m³

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 1-27-20

Wind Direction: SW 9 mph Contractor: ACV Enviro Temperature: 38°F

Daily Work Activities: Demo of east wall w/ Ice Blasting/grinding

Observations: Sunny - Fair

Equipment Used: S - 8530191406
Dust Trak 8530 NE - 8530095003

Start Time: S - 8:28am
NE - 8:37am

Dust Monitor Signature: [Signature] Baseline Reading: S - .034 $\mu\text{g}/\text{m}^3$



↑ wind direction

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:28	S	.021	down	NO
9:37	NE	.02	up	NO
10:28	S	.021	down	NO
10:37	NE	.009	up	NO
11:28	S	.008	down	NO
11:37	NE	.006	up	NO
12:28	S	.042	down	NO
12:37	NE	.005	up	NO
13:28	S	.008	down	NO
13:37	NE	.011	up	NO
14:28	S	.048	down	NO
14:37	NE	.003	up	NO
15:28	S	.009	down	NO
15:37	NE	.009	up	NO

TWA: S - .024 $\mu\text{g}/\text{m}^3$ NE - .009 $\mu\text{g}/\text{m}^3$
Highest Concentration: S - .082 $\mu\text{g}/\text{m}^3$
NE - .031 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 1-28-20

Wind Direction: NW 7 Contractor: ACV Enviro Temperature: 39 F

Daily Work Activities: Cleaning of east wall debris and ice blasting

Observations: Sunny - overcast

Equipment Used: Dust Trak 8530 E - 8530095 Middle - 8530191406

Start Time: E - 0812 Middle - 0817

Dust Monitor Signature: _____ Baseline Reading: E - .012

mg/m3 middle - .008 mg/m3

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
0912	E	.008	Down	NO
0917	M	.069.	Up	NO
1012	E	.013	Down	NO
1017	M	.053	Up	NO
1112	E	.006	Down	NO
1117	M	.006	Up	NO
1212	E	.004	Down	NO
1217	M	.005	Up	NO
1312	E	.008	Down	NO
1317	M	.014	Up	NO
1412	E	.016	Down	NO
1417	M	.005	Up	NO
1512	E	.009	Down	NO

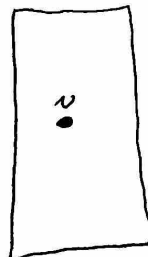
ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 1-29-20

Wind Direction: NW 4mph Contractor: ACV Enviro Temperature: 32°F

Daily Work Activities: Ice Blasting - Load out of Excluded PCB debris, and rough cleaning of the concrete floor

Observations: Sunny - Fair



Equipment Used: Dust Trak 8530 N- 8530191406 SE- 8530045003

Start Time: N- 10:00
SE- 10:07

Dust Monitor Signature: [Signature]

Baseline Reading: N- .004 $\mu\text{g}/\text{m}^3$
SE- .004 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
11:00	N	.009	down	NO
11:07	SE	.008	up	NO
12:00	N	.009	down	NO
12:07	SE	.005	up	NO
13:00	N	.008	down	NO
13:07	SE	.007	up	NO
14:00	N	.01	down	NO
14:07	SE	.016	up	NO
15:00	N	.008	down	NO
15:07	N SE	.004	up	NO

TWA: N- .005 $\mu\text{g}/\text{m}^3$ SE- .005 $\mu\text{g}/\text{m}^3$
Highest Concentration: N- .011 $\mu\text{g}/\text{m}^3$
SE- .02 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B

Client: UI

Date: 1-30-20

Wind Direction: N 10 mph

Contractor: ACV Enviro

Temperature: 23°F

Daily Work Activities: Ice Blasting, Demo East Wall

Observations: Sunny - Fair

* Work activity - Ice Blasting. Area around and within ice blasting activities

was very dry and dusty. Once crew witnessed high dust conc. water was sprayed over work area.

NE - 853009 SW03

Equipment Used: Dust Trak 8530 SW-8530191406

Start Time: WE - 8:02
SW - 8:23

Dust Monitor Signature: [Signature]

Baseline Reading: NE - .006 $\mu\text{g}/\text{m}^3$
SW - .01 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:02	NE	.006	down	NO
9:23	SW	.0234	up	Yes *
10:02	NE	.005	down	NO
10:23	SW	.015	up	NO
11:02	NE	.005	down	NO
11:23	SW	.016	up	NO
12:02	NE	.007	down	NO
12:23	SW	.01	up	NO
13:02	NE	.008	down	NO
13:23	SW	.009	up	NO
14:02	NE	.004	down	NO
14:23	SW	.013	up	NO
14:42	NE	.005	down	NO

TWA: SW - .019 $\mu\text{g}/\text{m}^3$ NE - .005 $\mu\text{g}/\text{m}^3$
Highest Concentration: SW - .0234 $\mu\text{g}/\text{m}^3$
NE - .01 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 1-31-20
 Wind Direction: SE 7 mph Contractor: ACV Enviro Temperature: 37°F
 Daily Work Activities: Grinding of black paint, Demo of cast wall

Observations: Sunny

Equipment Used: Dust Trak 8530 NE- 8530095003
SW- 8530191406

Start Time: NE - 7:45
SW - 7:50

Dust Monitor Signature: [Signature]

Baseline Reading: NE - .04 $\mu\text{g}/\text{m}^3$
SW - .042 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:45	NE	.041	down	NO
8:50	SW	.031	up	NO
9:45	NE	.026	down	NO
9:50	SW	.019	up	NO
10:45	NE	.005	down	NO
10:50	SW	.025	up	NO
11:45	NE	.004	down	NO
11:50	SW	.006	up	NO
12:45	NE	.003	down	NO
12:50	SW	.007	up	NO
13:45	NE	.01	down	NO
13:50	SW	.011	up	NO
14:45	NE	.006	down	NO
14:50	SW	.010	up	NO

TWA: NE - .016 $\mu\text{g}/\text{m}^3$ SW - .019 $\mu\text{g}/\text{m}^3$
 Highest Concentration:

NE - .055 $\mu\text{g}/\text{m}^3$
SW - .05 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-3-20

Wind Direction: SW 5mph Contractor: ACV Enviro Temperature: 38°F

Daily Work Activities: Grinding of paint. Load out of demo debris and
demo of east wall

Observations: Fair

Equipment Used: Dust Trak 8530 NE- 8530845003
SW - 8530191406

Start Time: NE- 8:18 am
SW - 8:26 am

Dust Monitor Signature: [Signature] Baseline Reading: NE-.036 $\mu\text{g}/\text{m}^3$
SW-.039 $\mu\text{g}/\text{m}^3$



NE
wind direction

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:18	NE	.031	up	No
9:26	SW	.027	down	No
10:18	NE	.012	up	No
10:26	SW	.021	down	No
11:18	NE	.01	up	No
11:26	SW	.016	down	No
12:18	NE	.012	up	No
12:26	SW	.016	down	No
13:18	NE	.009	up	No
13:26	SW	.012	down	No
14:18	NE	.013	up	No
14:26	SW	.014	down	No
15:08	NE	.017	up	No
15:56	SW	.015	down	No

TWA: NE-.015 $\mu\text{g}/\text{m}^3$ SW-.016 $\mu\text{g}/\text{m}^3$
Highest Concentration: NE-.037 $\mu\text{g}/\text{m}^3$
SW-.039 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-4-20

Wind Direction: N 5 mph Contractor: ACV Enviro Temperature: 40°F

Daily Work Activities: Grinding of paint and clean up of demo debris

Observations: Overcast - light rain

Equipment Used: Dust Trak 8530 NW-8530191406 SE-8530095003

Start Time: NW - 7:59 am
SE - 8:04 am

Dust Monitor Signature: [Signature]

Baseline Reading: NW - .024 $\mu\text{g}/\text{m}^3$
SE - .024 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:59	NW	.028	down	No
9:04	SE	.026	up	No
9:59	NW	.029	down	No
10:04	SE	.024	up	No
10:59	NW	.031	down	No
11:04	SE	.026	up	No
11:59	NW	.037	down	No
12:04	SE	.032	up	No
12:59	NW	.032	down	No
13:04	SE	.027	up	No
13:59	NW	.031	down	No
14:04	SE	.024	up	No
14:59	NW	.043	down	No
15:04	SE	.037	up	No

TWA: NW - .032 $\mu\text{g}/\text{m}^3$ SE - .027 $\mu\text{g}/\text{m}^3$
Highest Concentration:

NW - .068 $\mu\text{g}/\text{m}^3$
SE - .05 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-5-80

Wind Direction: NW 7mph Contractor: ACV Enviro Temperature: 41°F

Daily Work Activities: Final cleaning of Station B wall and east wall
demo. bridging of remaining black paint.

Observations: Overcast



↑ wind direction

Equipment Used: Dust Trak 8530 SE - 8530095003
NW - 8530191406

Start Time: SE - 7:58 AM
NW - 8:14 AM

Dust Monitor Signature: [Signature]

Baseline Reading: SE - .007 $\mu\text{g}/\text{m}^3$
NW - .008 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:58	SE	.015	up	NO
9:14	NW	.007	down	NO
9:58	SE	.015	up	NO
10:14	NW	.006	down	NO
10:58	SE	.008	up	NO
11:14	NW	.015	down	NO
11:58	SE	.006	up	NO
12:14	NW	.007	down	NO
12:58	SE	.004	up	NO
13:14	NW	.007	down	NO
13:58	SE	.006	up	NO
14:14	NW	.008	down	NO
14:58	SE	.035	up	NO
15:14	NW	.008	down	NO

TWA: SE - .01 $\mu\text{g}/\text{m}^3$ NW - .008 $\mu\text{g}/\text{m}^3$
 Highest Concentration: SE - .037 $\mu\text{g}/\text{m}^3$
NW - .008 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-6-20

Wind Direction: N 7 mph Contractor: ACV Enviro Temperature: 41°F

Daily Work Activities: Cutting of metal structures. final cleaning
of Floor.

Observations: Fog - light rain



→
wind
direction

Equipment Used: Dust Trak 8530 SE-8530095003
NW-8530191406

Start Time: SE-8:46 AM
NW-8:48 AM

Dust Monitor Signature: [Signature] Baseline Reading: SE-.016 $\mu\text{g}/\text{m}^3$
NW-.015 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:46	SE	.016	up	NO
9:48	NW	.016	down	NO
10:46	SE	.012	up	NO
10:48	NW	.016	down	NO
11:46	SE	.011	up	NO
11:48	NW	.018	down	NO
12:46	SE	.013	up	NO
12:48	NW	.02	down	NO
13:46	SE	.01	up	NO
13:48	NW	.018	down	NO
14:46	SE	.006	up	NO
14:48	NW	.014	down	NO

TWA: SE-.006 $\mu\text{g}/\text{m}^3$ NW-.014 $\mu\text{g}/\text{m}^3$
Highest Concentration: SE-.022 $\mu\text{g}/\text{m}^3$
NW-.023 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-12-20

Wind Direction: NW 7mph Contractor: ACV Enviro Temperature: 43°

Daily Work Activities: Roof removal of cooling water trench

Observations: Sunny

Equipment Used: Dust Trak 8530 NE-8530191406 SW-8530495003

Start Time: NE 9:02 am
SW- 9:35 am

Dust Monitor Signature: [Signature] Baseline Reading: NE-.013 $\mu\text{g}/\text{m}^3$ SW-.027 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
10:02	NE	.014	down	NO
10:35	SW	.011	up	NO
11:02	NE	.013	down	NO
11:35	SW	.009	up	NO
12:02	NE	.015	down	NO
12:35	SW	.013	up	NO
13:02	NE	.023	down	NO
13:35	SW	.018	up	NO
14:02	NE	.031	down	NO
14:35	SW	.018	up	NO
15:02	NE	.028	down	NO
15:35	SW	.02	up	NO

TWA: NE-.016 $\mu\text{g}/\text{m}^3$ SW-.014 $\mu\text{g}/\text{m}^3$
Highest Concentration: NE-.033 $\mu\text{g}/\text{m}^3$
SW-.041 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-13-20

Wind Direction: N 3mph Contractor: ACV Enviro Temperature: 39°F

Daily Work Activities: removal of trench roof SW

Observations: light rain

Equipment Used: Dust Trak 8530 NE - 8530191400
SW - 8530095003

Start Time: NE - 9:02 am
SW - 9:04 am

Dust Monitor Signature: Jeff Brignone

Baseline Reading: NE - .016 $\mu\text{g}/\text{m}^3$
SW - .016 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
10:02	NE	.026	down	NO
10:04	SW	.056	up	NO
11:02	NE	.039	down	NO
11:04	SW	.026	up	NO
12:02	NE	.044	down	NO
12:04	SW	.034	up	NO
13:02	NE	.027	down	NO
13:04	SW	.016	up	NO
14:02	NE	.019	down	NO
14:04	SW	.01	up	NO
15:02	NE	.019	down	NO
15:04	SW	.011	up	NO

TWA: NE - .024 $\mu\text{g}/\text{m}^3$ SW - .017 $\mu\text{g}/\text{m}^3$
 Highest Concentration: NE - .063 $\mu\text{g}/\text{m}^3$
SW - .056 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-14-20
 Wind Direction: NW 15mph Contractor: ACV Enviro Temperature: 34°F
 Daily Work Activities: Removal of trench roofs

Observations: Overcast SW

Equipment Used: Dust Trak 8530 NE - 8530191400
SW - 8530095003

Start Time: NE - 8:32am
SW - 8:37am

Dust Monitor Signature: *Jeffrey* Baseline Reading: NE - .009 $\mu\text{g}/\text{m}^3$
SW - .007 $\mu\text{g}/\text{m}^3$



Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:32	NE	.011	up	NO
9:37	SW	.003	down	NO
10:32	NE	.018	up	NO
10:37	SW	.005	down	NO
11:32	NE	.014	up	NO
11:37	SW	.002	down	NO
12:32	NE	.009	up	NO
12:37	SW	.002	down	NO
13:32	NE	.011	up	NO
13:37	SW	.003	down	NO
14:32	NE	.013	up	NO
14:37	SW	.004	down	NO

TWA: NE - .011 $\mu\text{g}/\text{m}^3$ SW - .003 $\mu\text{g}/\text{m}^3$
 Highest Concentration: NE - .024 $\mu\text{g}/\text{m}^3$
SW - .009 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 2-18-20
 Wind Direction: NE 7mph Contractor: ACV Enviro Temperature: 37°F
 Daily Work Activities: Clean up of debris from roof removal



Observations: light rain



Equipment Used: Dust Trak 8530 E - 8530091406
 W - 8530045003

Start Time: E - 9:07am
W - 9:04am

Dust Monitor Signature: [Signature] Baseline Reading: E - .011 $\mu\text{g}/\text{m}^3$
W - .012 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
10:07	E	.013	down	NO
10:09	W	.011	up	NO
11:07	E	.015	down	NO
12:04	W	.012	up	NO
12:07	E	.019	down	NO
12:09	W	.014	up	NO
13:07	E	.019	down	NO
13:09	W	.014	up	NO
14:07	E	.019	down	NO
14:09	W	.014	up	NO

TWA: E - .012 $\mu\text{g}/\text{m}^3$ W - .01 $\mu\text{g}/\text{m}^3$
 Highest Concentration: E - .022 $\mu\text{g}/\text{m}^3$
 W - .06 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 12-19-20

Wind Direction: NW 7 mph Contractor: ACV Enviro Temperature: 41°F

Daily Work Activities: Prepping sample locations for TRC in Trenches. Housekeeping

Observations: blenny - Partly Cloudy

SE



↑
wind direction

Equipment Used: Dust Trak 8530 SE - 8530095003
NW - 8530191406

Start Time: SE - 11:02 am
NW - 11:06 am

Dust Monitor Signature: Jeffrey Bryan

Baseline Reading: SE - .009 $\mu\text{g}/\text{m}^3$
NW - .005 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
12:02	SE	.005	up	NO
12:06	NW	.007	down	NO
13:02	SE	.005	up	NO
13:06	NW	.008	down	NO
14:02	SE	.019	up	NO
14:06	NW	.01	down	NO
15:02	SE	.004	up	NO
15:06	NW	.014	down	NO

TWA: SE - .004 $\mu\text{g}/\text{m}^3$ NW - .005 $\mu\text{g}/\text{m}^3$
Highest Concentration: SE - .019 $\mu\text{g}/\text{m}^3$
NW - .014 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 03-3-20

Wind Direction: SW Contractor: ACV Enviro Temperature: 51°F

Daily Work Activities: cleaning up site of loose debris and loading
supplies onto trucks to be demobilized.

Observations: Fair, clear weather SW

Equipment Used: Dust Trak 8530 SW - 8530095003
NE - 8530191406

Start Time: 8:09 AM
NE - 8:13 AM

Dust Monitor Signature: [Signature] Baseline Reading: SW - .035 $\mu\text{g}/\text{m}^3$
NE - .037 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:09	SW	.042	down	NO
9:13	NE	.038	up	NO
10:09	SW	.035	down	NO
10:13	NE	.033	up	NO
11:09	SW	.034	down	NO
11:13	NE	.032	up	NO
12:09	SW	.03	down	NO
12:13	NE	.029	up	NO
13:09	SW	.023	down	NO
13:13	NE	.022	up	NO
13:59	SW	.019	down	NO
14:03	NE	.022	up	NO

TWA: SW - .024 $\mu\text{g}/\text{m}^3$ NE - .023 $\mu\text{g}/\text{m}^3$
 Highest Concentration: SW - .043 $\mu\text{g}/\text{m}^3$
NE - .04 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 3-4-20
 Wind Direction: W 12 mph Contractor: ACV Enviro Temperature: 47°F
 Daily Work Activities: De-constructing the decan pool

Observations: Partly Cloudy

Equipment Used: Dust Trak 8530 W-853008503 E-8530191406

Start Time: W- 9:20 AM
E- 9:19 AM

Dust Monitor Signature: Jeffrey Pryor

Baseline Reading: W-.013 $\mu\text{g}/\text{m}^3$
E-.014 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:20	W	.01	down	NO
9:19	E	.011	up	NO
10:20	W	.008	down	NO
10:19	E	.01	up	NO
11:20	W	.006	down	NO
11:19	E	.01	up	NO
12:20	W	.005	down	NO
12:19	E	.01	up	NO
13:20	W	.005	down	NO
13:19	E	.01	up	NO
14:20	W	.005	down	NO
14:09	E	.011	up	NO

TWA: W-.005 $\mu\text{g}/\text{m}^3$ E-.008 $\mu\text{g}/\text{m}^3$
 Highest Concentration: W-.013 $\mu\text{g}/\text{m}^3$
E-.014 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 3-5-20

Wind Direction: NW 10mph Contractor: ACV Enviro Temperature: 42

Daily Work Activities: De-constructing decon pool and decontaminating
supplies off site.

Observations: Partly Cloudy

Equipment Used: Dust Trak 8530 W- 8530095003 E- 8530191406

Start Time: W- 7:52
 E- 7:52

Dust Monitor Signature: [Signature]

Baseline Reading: W- .003 mg/m³ E- .003 mg/m³ Wind direction

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
8:52	W	.003	down	NO
8:52	E	.003	up	NO
9:52	W	.002	down	NO
9:52	E	.004	up	NO
10:52	W	.003	down	NO
10:52	E	.005	up	NO
11:52	W	.003	down	NO
11:52	E	.005	up	NO
12:52	W	.003	down	NO
12:52	E	.005	up	NO
13:12	W	.008	down	NO

TWA: W- .002 mg/m³ E- .003 mg/m³
 Highest Concentration: W- .008 mg/m³ E- .006 mg/m³

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 3-6-20

Wind Direction: N 6 Contractor: ACV Enviro Temperature: 31°F

Daily Work Activities: Palletizing supplies and picking up loose debris

Observations: Cloudy

Equipment Used: Dust Trak 8530 NW-8530095003 SE-8530191406

Start Time: NW-8:27 AM
SE-8:27 AM

Dust Monitor Signature: [Signature]

Baseline Reading: NW-.025 $\mu\text{g}/\text{m}^3$ SE-.026 $\mu\text{g}/\text{m}^3$

Time	Sample Location	Result mg/m^3	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:27	NW	.018	down	NO
9:27	SE	.019	up	NO
10:27	NW	.004	down	NO
10:27	SE	.009	up	NO
11:27	NW	.004	down	NO
11:27	SE	.006	up	NO
12:27	NW	.004	down	NO
12:27	SE	.007	up	NO
13:27	NW	.003	down	NO
13:27	SE	.006	up	NO
14:17	NW	.005	down	NO
14:27	SE	.007	up	NO

TWA: NW-.007 $\mu\text{g}/\text{m}^3$ SE-.008 $\mu\text{g}/\text{m}^3$
Highest Concentration: NW-.026 $\mu\text{g}/\text{m}^3$ SE-.027 $\mu\text{g}/\text{m}^3$

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 3-30-20

Wind Direction: N 9 mph Contractor: ACV Enviro Temperature: 42°F

Daily Work Activities: Locate MW-D using excavator. Prepped for the loading out of trucks.

E

Observations: Over cast

Equipment Used: Dust Trak 8530 W-8530095003 E-8530191406

Start Time: W 7:24am E 7:23 am

W

Dust Monitor Signature: Jeffrey Biagioni

Baseline Reading: W-.004 mg/m3

E-.006 mg/m3

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
0824	W	.004	Up	No
0823	E	.005	Down	No
0924	W	.005	Up	No
0923	E	.004	Down	No
1024	W	.006	Up	No
1023	E	.004	Down	No
1124	W	.008	Up	No
1123	E	.004	Down	No
1224	W	.009	Up	No
1223	E	.006	Down	No

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 3-31-20

Wind Direction: N 7mph Contractor: ACV Enviro Temperature: 41 deg

Daily Work Activities: Loaded out trucks with excluded pcb waste.

Observations: Overcast

Equipment Used: Dust Trak 8530 N-8530191406 S-8530095003

Start Time: N-8:07 am S-7:59am

Dust Monitor Signature: Jeffrey Biagioni Baseline Reading: N-.005mg/m3

S-.006 mg/m3

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
0907	N	.006	Down	No
0859	S	.004	Up	No
1007	N	.005	Down	No
959	S	.004	Up	No
1107	N	.005	Down	No
1059	S	.005	Up	No
1207	N	.006	Down	No
1159	S	.005	Up	No
1307	N	.005	Down	No
1259	S	.01	Up	No

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 4-1-20

Wind Direction: N 13 mph Contractor: ACV Enviro Temperature: 37 deg.

Daily Work Activities: Finished final cleaning under stockpile. Decon turbo vac and bucket.

Observations: Fair and calm

Equipment Used: Dust Trak 8530 S-8530191405 N-8530095003

Start Time: S-0815am N-0816am

Dust Monitor Signature: Jeffrey Biagioni

Baseline Reading: S-.043 mg/m3

N-.008 mg/m3

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
0915	S	.01	Up	No
0916	N	.007	Down	No
1015	S	.007	Up	No
1016	N	.008	Down	No
1115	S	.009	Up	No
1116	N	.009	Down	No
1215	S	.008	Up	No
1216	N	.009	Down	No
1315	S	.01	Up	No
1256	N	.009	Down	No

ACV-English Station Remediation Project - Dust Monitoring Daily Log

Site: Station B Client: UI Date: 4-2-20

Wind Direction: NW 14 mph Contractor: ACV Enviro Temperature: 45 F

Daily Work Activities: Repaired MW-D, Relocate Trench material, Deconned Exc. bucket

Observations: Partially cloudy, Fair

Equipment Used: Dust Trak 8530 S-8530191406 N-8530095003

Start Time: S-8:01am N-8:03am

S

N

Dust Monitor Signature: Jeffrey Biagioni

Baseline Reading: S-.006 mg/m3

N-.021 mg/m3

Time	Sample Location	Result mg/m ³	Up/Down Wind	Sample Exceedance of xxx? (Yes/No) (If Yes, provide work activity & response action)
9:01	S	.003	Up	No
9:03	N	.021	Down	No
10:01	S	.002	Up	No
10:03	N	.022	Down	No
11:01	S	.001	Up	No
11:03	N	.021	Down	No
12:01	S	.006	Up	No
12:03	N	.023	Down	No
13:01	S	.002	Up	No
13:03	N	.024	Down	No

APPENDIX H
ACV Dry Ice Blasting Procedure

DRY ICE BLASTING PROCEDURE

EHS-OP-034-IDS



Author:	Kirk Baker	Issue Date:	August, 2012
Job Title:	Env, Health & Safety Manager	Revision Date:	November, 2019
Issuing Depart:	EHS		

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I. Introduction

These recommended practices apply to the operation of all types of dry ice blasting as normally used in construction, maintenance, repair, cleaning, cutting and demolition work. Types of dry ice blasting equipment are described, and recommendations are made about how to run the equipment and how to train equipment operators. Reference should also be made to present or proposed industry standards, including those of the U.S. Occupational Safety and Health Administration (OSHA), the American Society of Testing Materials (ASTM), the American National Standards Institute (ANSI), and to equipment manufacturers recommendations, where they are appropriate.

Dry Ice Blasting technology for cleaning is changing rapidly. This new development is quickly expanding around the world. Systems use small rice size pellets of dry ice shooting them out of a jet nozzle with compressed air. It works somewhat like sandblasting or high-pressure water or steam blasting, with superior results. The frigid temperature of the dry ice -109.3°F or -78.5°C "blasting" against the material to be removed, causes it to shrink and lose adhesion from its sub surface. Additionally, when some of the dry ice penetrates through the material to be removed, it meets the underlying surface. The warmer sub surface causes the dry ice to convert back into carbon dioxide gas. The gas has 800 times greater volume and expands behind the material speeding up its removal. Paint, oil, grease, asphalt, tar, decals, soot, dirt, ink, resins, and adhesives are some of the materials removed by this procedure. Only the removed material must be disposed of, as the dry ice sublimates into the atmosphere.

This program is developed for ACV Enviro (ACV) and includes ACV Environmental Services (f/k/a Allstate Power Vac), Clean Venture, Cycle Chem, Envirotech and any other applicable subsidiaries. It is designed to provide safe guidelines for the operation and maintenance of dry ice blasting equipment and their related components. Therefore, these Recommended Practices will be reviewed and revised regularly. A thorough review of the manufacturer operations and repair manuals must also be completed as part of these guidelines.

II. Goals

These Recommended Practices are designed to describe the basic practices for dry ice blasting when cleaning material.

These Recommended Practices do NOT replace the training necessary to operate and maintain high pressure water jetting systems. Trainees must be properly trained by qualified personnel and must be able to demonstrate their knowledge and ability to perform a task before being required to do so.

Every job and work site have their own special conditions that must be reviewed by the contractor's and owner's representatives, before work begins, to develop for each job and work site a set of written procedures. The written job procedures may be based on these Recommended Practices, but they must also include special precautions to be followed on a particular job or at a particular site.

When using different systems at different sites, procedures may need to be changed. However,

certain steps are recommended for all operations. In these Recommended Practices, where “shall” is used rather than “should”, the procedure described must be followed to comply with these Recommended Practices.

III. Responsibility

During any ice blasting activity, the correct operation and application of the ice blasting equipment is the responsibility of the operator, who should be familiar with the operation of equipment and accessories.

Serious harm or injury may result from the misuse of blasting equipment or the use of improper fittings, hoses, or attachments.

A. Supervisors

- Be aware of potentially hazardous conditions that may arise during the blasting process prior to starting any blasting job and must take measures to protect employees.
- Ensure that all employees are trained on related safety topics.
- Understand the importance of regularly scheduled maintenance for continued safe operation of blast equipment. Ensure that all employees comply with this policy and all other related policies.

B. Employees

- Be familiar with the safe operating functions of blasting equipment to be used on a job.
- Comply with all company policies.
- Have knowledge of hazards associated with dry ice blasting.

IV. Accidents

Personal Injury – A person injured by coming into prolonged contact with dry ice could show signs of skin cell damage similar to a burn. Dry ice is at an extremely low temperature and it will freeze your skin cells and should be treated with the same medical attention as a burn.

A. Medical Recommendations

If an accident should occur treat the affected area as you would a burn. If ingested seek medical attention immediately as it would be similar to drinking something scalding hot and you could risk damage to your mouth, throat and part of your esophagus.

B. Reporting

If any person or equipment is injured dry ice blasting accident, a report shall be made to the General Manager or Operations Manager and Health and Safety.

V. Protective Equipment for Personnel

Proper PPE shall be worn at all times. The SDS(s) for the material being removed shall be consulted for information on additional PPE requirements. At a minimum the following PPE shall be used: Hard Hat, Face Shield and goggles, Hearing Protection, thermal Gloves, Safety Toed Work boots. Respiratory protection and protective suit may be required for any given dry ice blasting job.

A. Head Protection

All operators shall be issued suitable head protection which shall be worn at all times while at the work site.

B. Eye Protection

Eye protection must provide the protection need and must properly fit the person wearing it. Eye protection shall be provided to, and worn by, all dry ice blasting equipment operators while they are in the working area. All eye protection shall meet appropriate ANSI requirements for that type of eye protection and shall consist of a face shield and goggles.

C. Hearing Protection

Dry ice blasting can generate considerable noise, both in air and under water (frequently louder than 90 dBA).

Therefore, all operators shall be issued and required to wear hearing protection while in the working area. Hearing protection should be regularly inspected and properly maintained and should comply with federal and/or state regulatory standards. (See ACV's Hearing Protection Program EHS-PR-018-IDS)

All personnel, operators, and others in the vicinity of dry ice blasting equipment should be taught how to fit and properly use ear protectors so that their exposure to noise does not exceed federal, state or other regulatory limits.

D. Body Protection

Dry ice blasting cannot penetrate clothing or most protective suits, and the skin but it can cause serious injury. Therefore, protective clothing shall be utilized and have an outer layer that repels casual rebounding dry ice. Protective clothing should also provide some protection from the impact of rebounding debris from the impact point where this may be a hazard to the operator.

Protective suits shall be worn when there is a reasonable chance that an injury can be prevented by such equipment.

E. Hand Protection

All operators should be provided with adequate means to protect their hands (thermal gloves), and this protective equipment shall be worn when there is a reasonable chance that

an injury can be prevented by such equipment.

F. Foot Protection

All operators and workers in the vicinity of a blasting operation shall wear, safety toed work boots.

G. Respiratory Protection

The company Respiratory Program (EHS-PR-019-IDS) shall be followed as applicable to chemical or atmospheric conditions of the job being completed.

VI. Operational and Training Requirements

Training shall occur prior to exposure of dry ice blasting related hazards or operation of equipment and shall include coworkers working in the immediate vicinity of the equipment that have the same exposure. Employees will be trained on the hazards (including frost bite of the skin by dry ice), operating procedures, and maintenance of dry ice blasters prior to performing any dry ice blasting work.

Only individuals that have taken the dry ice Training/ Awareness Course, may operate any dry ice blasting unit.

Manufacturer guidelines and procedures must be followed.

1. **Qualified Operators** – Only Personnel who have undergone a proper training program and who have demonstrated the knowledge and skill and gained the experience to perform all likely assigned tasks shall operate dry ice blasting equipment. They may also supervise the training of new operators.
2. **Training** – Before being assigned to their first high-pressure water jetting jobs, employees shall receive proper training by ACV and/or Manufacturer. This training shall include, at a minimum, coverage of all items listed in these Recommended Practices.
3. **Personal Protective Equipment** – The Minimum personal protective equipment shall be explained. Instructions shall be given as to when and how specific clothing and other types of protective devices shall be worn according to the type of work performed, locations, etc.
4. **System Operation** – The operation of dry ice blasting systems shall be explained by pointing out potential problems and proper corrective actions.
5. **Operating Pressure** – The need to operate equipment at or below the manufacturer's recommended working pressure shall be stressed.
6. **Control Devices** - The operation of all control devices shall be explained. The importance of not tampering with any control devices, as well as the importance of keeping them in proper working order, shall be stressed.
7. **Equipment Maintenance** – The importance of the proper and timely care and maintenance of dry ice blasting equipment shall be presented. Instructions shall be provided on the procedures to follow in maintaining equipment and when the equipment must be returned for care by more

qualified employees.

Stress that equipment shall not be repaired, or connections tightened, when the unit is operation, or the pump is running.

8. **Hose** - The proper method of identifying and connecting hoses, including laying out without kinks, protecting hoses from excessive wear, identifying worn or unsafe hose, and proper tools to use on couplings and fittings, shall be explained. Fittings and couplings on hoses should not be tightened or tampered with while the hose is pressurized. Safety connectors (whipchecks) should be used across all those connections.

9. **General**

Depressurizing the System – High-pressure systems shall be depressurized when

- i. not in use;
- ii. an unauthorized or inadequately protected person enters the barricaded area;
- iii. replacement or repairs are made to the system; and/or
- iv. any Recommended Practices are violated.

VII. What is Dry Ice?

A. Planning

Dry ice is the solid form of Carbon Dioxide (CO₂), which is a colorless, tasteless, odorless gas found naturally in our atmosphere. Though it is present in relatively small quantities (about 0.03% by volume), it is one of the most important gases we know of.

CO₂ is a natural media that serves many life sustaining purposes. It is a key element in the carbon cycle; it is the only source of carbon for the carbohydrates produced by agriculture; it stimulates plant growth; and it helps to moderate the temperature of the earth overall. Animal respiration is believed to add 28 million tons of Carbon Dioxide per day into the atmosphere. By contrast, the U.S. CO₂ industry can supply only 25,000 tons per day and 95% of this amount is from by-product sources, or less than 0.04% of the other sources combined.

With a low temperature of -109° F (-78° C), solid CO₂ (dry ice) has an inherent thermal energy ready to be tapped. At atmospheric pressure, dry ice sublimates directly to vapor without going through a liquid phase. This unique property means that the blast media simply disappears, leaving only the original contaminant to be disposed of. In addition, blast cleaning in water sensitive areas is now practicable.

The grade of carbon dioxide used in dry ice blasting is the same as that used in the food and beverage industry and has been specifically approved by the FDA, the EPA and the USDA. Carbon dioxide is a non-poisonous, liquefied gas that is both inexpensive and easily stored at work sites. Of equal importance is its non-conductive and non-flammable nature.

CO₂ is a natural by-product of several industrial manufacturing processes such as fermentation and petrol-chemical refining. The CO₂ given off by the above production processes is captured and stored without losses until needed. When the CO₂ is returned to the atmosphere during the blasting process, no new CO₂ is produced. Instead, only the original CO₂ by-product is released.

Listed below are the physical properties for CO₂ in its various forms:

Carbon Dioxide (CO₂) properties.

Molecular Weight	44.01
Density (Solid)	97.5 lbs/ft³ at -109° F / 1565 kg/m³ at -78° C
Density (Liquid)	63.7 lbs/ft³ at 0° F / 1022 kg/m³ at -18° C
Density (Gas)	0.123 lbs/ft³ at 32° F / 1.974 kg/m³ at 0° C
Melting Point	-69.9° F at 75.1 psia / -56.6° C at 5.2 bar absolute (triple point)
Boiling Point	-109.3° F / -78.5° C (sublimates)

B. Dry Ice Blasting Process

Dry Ice blasting is similar to sand blasting, plastic bead blasting, or soda blasting in that a media is accelerated in a pressurized air stream (or other inert gas) to impact the surface to be cleaned or prepared. With dry ice blasting the media is solid carbon dioxide (CO₂) particles. One unique aspect of using dry ice particles as a blast media is that the particles sublime (vaporize) upon impact with the surface. The combined impact-energy dissipation and extremely rapid heat transfer between the dry ice pellet and the surface causes the instantaneous sublimation of the solid CO₂ / dry ice into gas. The gas then expands to nearly eight hundred times (800x) the volume of the dry ice pellet in a few milliseconds in what is effectively a "micro-explosion" at the point of impact. Because of the solid CO₂ vaporizing, the dry ice blasting process does not generate any secondary waste. All that remains to be collected is the contaminate being removed.

As with other blast media, the kinetic energy associated with dry ice blasting is a function of the particle mass' density and impact velocity. Since CO₂ / dry ice particles have a relatively low hardness, the process relies on high particle velocities to achieve the needed impact energy. The high particle velocities are the result of supersonic propellant or airstream velocities.

Unlike other blast media, the CO₂ / dry ice particles have a very low temperature of -109° F (-78.3°C). This inherently low temperature gives the dry ice blasting process unique thermodynamically induced surface mechanisms that affect the coating or contaminate in greater or lesser degrees, depending on the coating type. Because of the temperature differential between the dry ice particles and the surface being treated, a phenomenon known as "fracking" or thermal shock can occur. As a material's temperature decreases, the material becomes embrittled, enabling the particle impact to break-up the coating.

Before cleaning

Base material

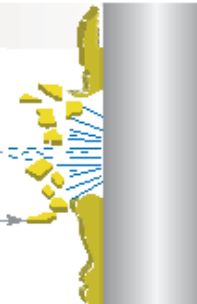
Contamination



During cleaning

Dry ice pellets

Loose contamination



After cleaning

Contamination removed base
material not damaged

Only the left over contamination
has to be removed





C. Area Limits

The area around a work site that will be required for the blasting operation and for the protection of those not involved in the blasting operation shall be defined by the owner and contractor or their representative. The boundary of this area shall be clearly marked by the blasting team, providing both a visible and/or a physical barrier to entry by unauthorized personnel.

D. Hook-up

1. Hose Layout and Support – Hose shall be arranged so that workers will not trip over them. Hoses, pipes, and fittings shall be supported to prevent excessive sway and/or wear created by vibration or stress on the end connections.
2. Hose Protection – All hoses should be protected from being run over and crushed by vehicles, forklift trucks, etc. A hose shall not be operated at a pressure exceeding the working pressure. Hoses should be laid out to avoid or minimize abrasive wear on the hose.
3. Fittings – All fittings shall be cleaned before installing in the system. Be sure all fittings are leak free and pressure rated for the purpose.
4. Hose Condition – All hoses shall be checked for evidence of damage, wear, or imperfections. The check shall be made periodically during the operation. As the system is being assembled for a job, the hose and connections shall be checked to ensure that they are rated for use at the pressures to be used.
5. Nozzles – All orifices in nozzles shall be checked for any blockage and/or damage or imperfections before the nozzle is attached to the system. Defects should be corrected

before the nozzle is used. Pressurize the system slowly to make sure that nozzle openings are open and clear. Nozzles should also be checked to ensure that the orifice is properly sized for the flow and pressure to be used.

6. Work Surface – Before beginning work, the operator should ensure that it is possible to blast all the surfaces to be cleaned, and that a stable, secure working platform is available at all times from which to reach those surfaces. The operator should be able to maintain a sound and secure footing at all times. The working area should be checked, before beginning work, to ensure that the hoses and other required equipment do not interfere or pose hazards to the movement of the operator.

E. Procedures for Entering the Work Area

The owner or the owner's representative shall be requested to tell all those who normally work at the site, and especially those who might need access to the work area, that dry ice blasting will take place. These workers shall also be informed of the procedures to enter the work area.

F. Safety Data Sheets (SDSs)

As required by OSHA, SDSs shall be available for any and all materials, chemicals, etc. that may be encountered in the course of the job.

G. Disabling of Moving Equipment

All moving equipment, such as agitators, choppers, conveyors, etc. that are in proximity with the ice blasting operation shall be mechanically disabled (breaking a chain, coupling, etc.) or electrically disabled with an appropriate lock-tagout procedure, except where the nature of the dry ice blasting operations require continuous movement.

VIII. Operational Procedures

A. Proper Operations

1. Start Up – The Pump Operator shall not start the unit until told to do so, by word or signal, by the Nozzle Operator. Before bringing the unit up to pressure, on a second signal the Pump Operator shall ensure that the jetting nozzle is either directed at, or positioned within, the workpiece; that the Nozzle Operator has a secure stance and control of the nozzle; and that each team member is in the proper position to perform their tasks. The blast cleaning nozzles shall be equipped with an operating valve (on the gun or foot pedal) which must be held open manually and always under the control of the operator.
2. Operational Check – Both before and after bringing the system up to pressure the Pump Operator shall visually examine the hose and connections to the jetting gun or nozzle assembly to detect any leaks in the system.
3. Tightening and Adjusting Components – Apart from the normal adjusting of valves and other components required in a standard jetting procedure, no attempt shall be made to tighten or otherwise adjust any nut, hose connection, or other fitting or component of a pressurized

blasting system while the system is under pressure. The pumps shall be stopped and any pressure in the line discharged before any repair or other adjustment is made.

4. Equipment Malfunction – If any part of the dry ice blast system fails, then the system shall be shut down. The component shall then be repaired or replaced by properly trained personnel before the system is restarted.
5. Work Stoppage – Dry Ice Blasting operations shall stop.
 - a. if any unauthorized person enters the working area;
 - b. if a hazardous or potentially hazardous condition is detected;
 - c. if an alarm is sounded within the plant or works; or
 - d. if any of the Recommended Practices in this document are not being followed

IX. Repair & Maintenance

All machine parts will wear in time with equipment use. The wear does not always result in a complete equipment failure condition, but rather a slow process of tolerance loss that can cause gradual deterioration of components.

Make sure that any equipment to be serviced has been properly shut down and depressurized before beginning repairs. Follow these procedures:

- During any maintenance or equipment repairs, no procedure will be conducted while the equipment is in any form of operation mode.
- Proper de-energizing or shut down will include disengaging PTO, shutting down engine and physically removing the key from the unit.
- Verify that the system is de-energized. Engage the activation of the system to insure the energy release.
- Place an out of service/ Do Not Energize tag procedure will be used to stop reenergizing unit.

The maintenance safety and recommended practices include the following:

- Remove any loose objects such as trash and oil-soaked rags from the work area.
- Always wear proper PPE while servicing equipment. Never wear loose fitting clothing or jewelry while servicing equipment.
- To maintain safety at the highest level, be responsible and always avoid horseplay while working in and around equipment.
- All electrical components associated with this system are to be maintained in accordance with approved practices. Never jump wires across terminals or bypass fuses, fuse holders or circuit breakers.
- Never perform work on any equipment that is only supported by lifting jacks or a hoist. Support stands must always accompany these items before continuing with a repair.
- Make sure that all pressure has been removed from the system before performing repairs. Maintain heightened awareness for possible pressure when disconnecting any accessory from any equipment that utilizes pressure.
- Use care when working on any equipment that has just ceased operating. Components could

be hot and cause severe burns.

- Always inspect repair tools for fatigue or damage prior to repairing any equipment. Failure to perform this inspection could result in personal injury.

Use the following guidelines when using these diagnostics to identify the cause of a malfunction:

1. Accurately define the symptom of a concern; this is a vital first step in diagnosing the problem.
2. Locate the concern listed in the diagnostics section of the manufacturer's O&M manual that best matches the problem with your equipment.
3. Identify the most probable cause listed for your concern.
4. Repair or Maintenance should only be done by qualified personnel and/ or the Manufacturer. If you are qualified, use the corrective action procedure as your step towards repair of the accessory.

X. Air Monitoring

Air monitoring shall be required during dry ice blasting operations to ensure that Oxygen levels have not been displaced by the expansion of the carbon dioxide during impact.

Monitoring of Concern	Monitoring Instrument	Substance / Material Exposure Action Levels			
		Level A	Level B	Level C	Level D
Oxygen	Multi gas	19.5-22%	19.5-22%	19.5-22%	19.5-22%

Ventilation shall be utilized to mitigate the displace of Oxygen as needed, operations taking place outside in open air would not require ventilation.

Negative air containment may be required pending the material being removed. Please contact Health and Safety prior to commencing any job or task that may require negative air i.e. Lead Paint Removal

XI. Failure to Comply

Anyone found failing to comply with the above requirements is subject to Disciplinary Action under the Disciplinary Action Policy, with the violation treated as a Safety Violation posing an Immediate Danger to Life and Health.

XII. Associated Documents and References

A. References

- Hearing Protection Program EHS-PR-018-IDS
- Air Monitoring Program EHS-PR-028-IDS
- Respiratory Protection Program EHS-PR-019-IDS

B. Documents

- Job Safety Analysis

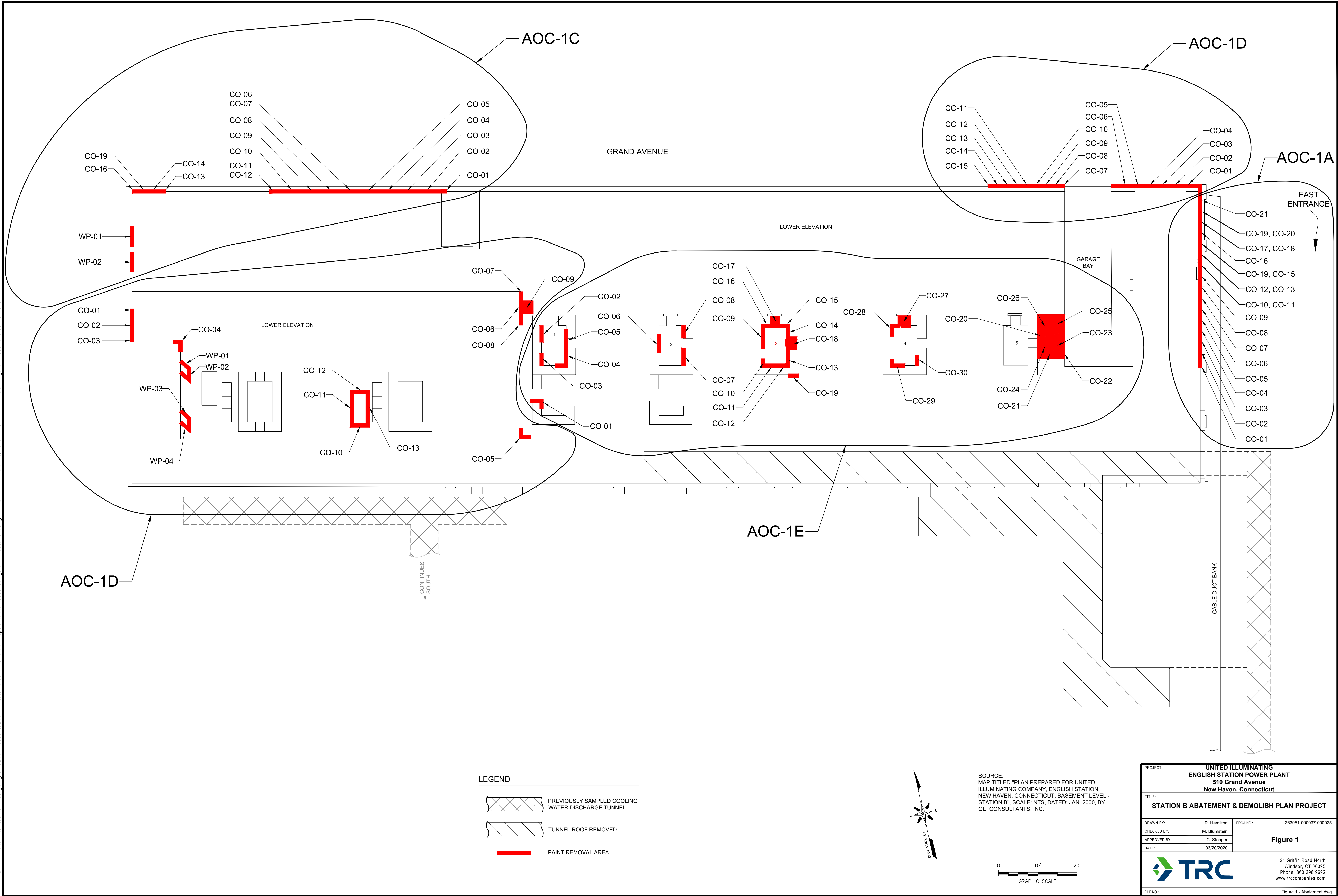
Revisions

Revision Date	Changes
November, 2019	Revise and update entire program

APPENDIX I

Porous Substrate Verification Sampling Lab Results for PCBs

2408 -- ATTACHED XREFS: TRC-11-12 NA009 -- ATTACHED IMAGES: GEI Plate-18; GEI Plate-19; GEI Plate-20; GEI Plate-21;
DRAWING NAME: J:\CAD\United Illuminating\English Station-263951\Station B Abatement and Demolition Report -000037000025\ Figure 1 - Abatement.dwg --- PLOT DATE: March 20, 2020 - 11:51 AM --- LAYOUT: Figure 1-Basement_03_20_2020



Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC: Sample Name: Lab Sample ID: Sample Date:				AOC-1A																																	
				TRC-AOC-1A-CO-01 (0-0.5")		TRC-AOC-1A-CO-02 (0-0.5")		TRC-AOC-1A-CO-03 (0-0.5")		TRC-AOC-1A-CO-04 (0-0.5")		TRC-AOC-1A-CO-05 (0-0.5")		TRC-AOC-1A-CO-06 (0-0.5")		TRC-AOC-1A-CO-06B (0-0.5")		TRC-AOC-1A-CO-07 (0-0.5")		TRC-AOC-1A-CO-08 (0-0.5")		TRC-AOC-1A-CO-09 (0-0.5")		TRC-AOC-1A-CO-10 (0-0.5")		TRC-AOC-1A-CO-11 (0-0.5")		TRC-AOC-1A-CO-12 (0-0.5")		TRC-AOC-1A-CO-13 (0-0.5")		TRC-AOC-1A-CO-14 (0-0.5")		TRC-AOC-1A-CO-15 (0-0.5")		TRC-AOC-1A-CO-16 (0-0.5")	
				20A0795-01		20A0795-02		20A0795-03		20A0795-04		20A0795-05		20A0795-06		20A0795-07		20A0795-09		20A0795-10		20A0795-11		20A0795-12		20A0795-13		20A0795-14		20A0795-15		20A0795-16		20A0795-17		20A1086-01	
				1/16/2020		1/16/2020		1/16/2020		1/16/2020		1/16/2020		1/16/2020		1/16/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/17/2020		1/24/2020	
Analysis	Analyte	Unit	EPA Standard									Duplicate of CO-06																									
PCB Aroclors																																					
	Aroclor-1016	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1221	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1232	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1242	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1248	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1254	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1260	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1262	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	Aroclor-1268	mg/kg	NS	<0.10	U	<0.095	U	<0.087	U	<0.099	U	<0.086	U	<0.077	U	<0.095	U	<0.094	U	<0.077	U	<0.090	U	<0.090	U	<0.10	U	<0.071	U	<0.090	U	<0.090	U	<0.083	U	<0.095	U
	PCBs, Total	mg/kg	1	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	

Notes:
mg/kg - milligrams per kilogram or parts per million (ppm).
NS - No Action Levels exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed the comparable criteria.
PCBs - Polychlorinated Biphenyls.
EPA - EPA 40 CFR 761.61(a)(4) and (5).

Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC: Sample Name: Lab Sample ID: Sample Date:														AOC-1B																							
				TRC-AOC-1A-CO-17 (0-0.5")		TRC-AOC-1A-CO-18 (0-0.5")		TRC-AOC-1A-CO-19 (0-0.5")		TRC-AOC-1A-CO-20 (0-0.5")		TRC-AOC-1A-CO-21 (0-0.5")		TRC-AOC-1B-CO-01 (0-0.5")		TRC-AOC-1B-CO-02 (0-0.5")		TRC-AOC-1B-CO-02B (0-0.5")		TRC-AOC-1B-CO-03 (0-0.5")		TRC-AOC-1B-CO-04 (0-0.5")		TRC-AOC-1B-CO-05 (0-0.5")		TRC-AOC-1B-CO-06 (0-0.5")		TRC-AOC-1B-CO-07 (0-0.5")		TRC-AOC-1B-CO-08 (0-0.5")		TRC-AOC-1B-CO-09 (0-0.5")		TRC-AOC-1B-CO-10 (0-0.5")		TRC-AOC-1B-CO-11 (0-0.5")	
				20A1086-02		20A1086-03		20A1086-04		20A1086-05		20A1086-06		20A1086-07		20A1086-08		20A1086-10		20A1086-09		20A1086-11		20A1086-12		20A1086-13		20A1156-01		20A1156-02		20A1156-03		20A1156-04		20A1156-05	
				1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/24/2020		1/27/2020		1/27/2020		1/27/2020		1/27/2020			
Analysis	Analyte	Unit	EPA Standard													Duplicate of CO-02																					
PCB Aroclors																																					
	Aroclor-1016	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1221	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1232	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1242	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1248	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1254	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1260	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1262	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	Aroclor-1268	mg/kg	NS	<0.095	U	<0.095	U	<0.083	U	<0.095	U	<0.10	U	<0.095	U	<0.095	U	<0.069	U	<0.10	U	<0.10	U	<0.069	U	<0.095	U	<0.096	U	<0.093	U	<0.093	U	<0.097	U	<0.075	U
	PCBs, Total	mg/kg	1	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	

Notes:
mg/kg - milligrams per kilogram or parts per million (ppm).
NS - No Action Levels exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed the comparable cri
PCBs - Polychlorinated Biphenyls.
EPA - EPA 40 CFR 761.61(a)(4) and (5).

Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC:				AOC-1C															
				TRC-AOC-1B-CO-12 (0-0.5")				TRC-AOC-1B-CO-13 (0-0.5")				TRC-AOC-1B-CO-14 (0-0.5")				TRC-AOC-1B-CO-15 (0-0.5")			
				TRC-AOC-1C-CO-01 (0-0.5")				TRC-AOC-1C-CO-02 (0-0.5")				TRC-AOC-1C-CO-03 (0-0.5")				TRC-AOC-1C-CO-04 (0-0.5")			
				TRC-AOC-1C-CO-05 (0-0.5")				TRC-AOC-1C-CO-06 (0-0.5")				TRC-AOC-1C-CO-07 (0-0.5")				TRC-AOC-1C-CO-08 (0-0.5")			
Sample Name:				08B (0-0.5")				CO-09 (0-0.5")				CO-10 (0-0.5")				CO-11 (0-0.5")			
Lab Sample ID:				20A1236-01				20A1236-02				20A1236-03				20A1236-04			
Sample Date:				1/27/2020				1/27/2020				1/27/2020				1/27/2020			
Analysis	Analyte	Unit	EPA Standard																
PCB Aroclors																			
	Aroclor-1016	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1221	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1232	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1242	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1248	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1254	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1260	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1262	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	Aroclor-1268	mg/kg	NS	<0.089	U	<0.095	U	<0.099	U	<0.084	U	<0.10	U	<0.10	U	<0.099	U	<0.10	U
	PCBs, Total	mg/kg	1	0		0		0		0		0		0		0		0	

Notes:

mg/kg - milligrams per kilogram or parts per million (ppm).

NS - No Action Levels exist for this analyte.

U - Analyte was not detected at specified quantitation limit.

Values in **bold** indicate the analyte was detected.

Values shown in bold and shaded type exceed the comparable cri

PCBs - Polychlorinated Biphenyls.

EPA - EPA 40 CFR 761.61(a)(4) and (5).

Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC: Sample Name: Lab Sample ID: Sample Date:														AOC-1D																							
				TRC-AOC-1C-CO-12 (0-0.5")		TRC-AOC-1C-CO-13 (0-0.5")		TRC-AOC-1C-CO-14 (0-0.5")		TRC-AOC-1C-CO-15 (0-0.5")		TRC-AOC-1C-CO-16 (0-0.5")		TRC-AOC-1D-CO-01 (0-0.5")		TRC-AOC-1D-CO-02 (0-0.5")		TRC-AOC-1D-CO-03 (0-0.5")		TRC-AOC-1D-CO-04 (0-0.5")		TRC-AOC-1D-CO-05 (0-0.5")		TRC-AOC-1D-CO-06 (0-0.5")		TRC-AOC-1D-CO-06B (0-0.5")		TRC-AOC-1D-CO-07 (0-0.5")		TRC-AOC-1D-CO-08 (0-0.5")		TRC-AOC-1D-CO-09 (0-0.5")		TRC-AOC-1E-CO-01 (0-0.5")		TRC-AOC-1E-CO-02 (0-0.5")	
				20A1236-13		20A1236-14		20A1236-15		20A1236-16		20A1236-17		20A1276-01		20A1276-02		20A1276-03		20A1276-04		20B0200-01		20B0200-02		20B0200-03		20B0200-04		20B0200-05		20B0200-06		20B0200-07		20B0200-08	
				1/28/2020		1/28/2020		1/28/2020		1/28/2020		1/28/2020		1/29/2020		1/29/2020		1/29/2020		1/29/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020	
Analysis	Analyte	Unit	EPA Standard																			Duplicate of CO-06															
PCB Aroclors																																					
	Aroclor-1016	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	Aroclor-1221	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	Aroclor-1232	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	Aroclor-1242	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	Aroclor-1248	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	0.17		0.22		<0.093	U
	Aroclor-1254	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	0.23		0.21		<0.093	U
	Aroclor-1260	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	0.23		<0.094	U	<0.093	U
	Aroclor-1262	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	Aroclor-1268	mg/kg	NS	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.10	U	<0.098	U	<0.096	U	<0.098	U	<0.094	U	<0.095	U	<0.094	U	<0.097	U	<0.10	U	<0.097	U	<0.093	U	<0.094	U	<0.093	U
	PCBs, Total	mg/kg	1	0		0		0		0		0		0		0		0		0		0		0		0		0		0		0.62		0.44		0	

Notes:
mg/kg - milligrams per kilogram or parts per million (ppm).
NS - No Action Levels exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in **bold and shaded type** exceed the comparable cri
PCBs - Polychlorinated Biphenyls.
EPA - EPA 40 CFR 761.61(a)(4) and (5).

Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC: Sample Name: Lab Sample ID: Sample Date:				AOC-1E																																	
				TRC-AOC-1E-CO-03 (0-0.5")		TRC-AOC-1E-CO-04 (0-0.5")		TRC-AOC-1E-CO-05 (0-0.5")		TRC-AOC-1E-CO-06 (0-0.5")		TRC-AOC-1E-CO-07 (0-0.5")		TRC-AOC-1E-CO-08 (0-0.5")		TRC-AOC-1E-CO-09 (0-0.5")		TRC-AOC-1E-CO-10 (0-0.5")		TRC-AOC-1E-CO-11 (0-0.5")		TRC-AOC-1E-CO-12 (0-0.5")		TRC-AOC-1E-CO-13 (0-0.5")		TRC-AOC-1E-CO-14 (0-0.5")		TRC-AOC-1E-CO-15 (0-0.5")		TRC-AOC-1E-CO-16 (0-0.5")		TRC-AOC-1E-CO-17 (0-0.5")		TRC-AOC-1E-CO-18 (0-0.5")		TRC-AOC-1E-CO-19 (0-0.5")	
				20B0200-09		20B0200-10		20B0200-11		20B0200-12		20B0200-13		20B0200-14		20B0200-15		20B0200-16		20B0200-17		20B0200-18		20B0200-19		20B0200-20		20B0201-01		20B0201-02		20B0201-03		20B0201-04		20B0201-05	
				2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020	
Analysis	Analyte	Unit	EPA Standard																																		
PCB Aroclors																																					
	Aroclor-1016	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1221	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1232	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1242	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	0.16	
	Aroclor-1248	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	0.1		0.14		0.15		<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1254	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	0.16		<0.097	U	0.12		<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	0.15		<0.096	U	<0.098	U
	Aroclor-1260	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1262	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	Aroclor-1268	mg/kg	NS	<0.098	U	<0.098	U	<0.10	U	<0.093	U	<0.097	U	<0.099	U	<0.093	U	<0.10	U	<0.086	U	<0.097	U	<0.096	U	<0.090	U	<0.097	U	<0.096	U	<0.097	U	<0.096	U	<0.098	U
	PCBs, Total	mg/kg	1	0		0		0		0.27		0.14		0.28		0		0		0		0		0		0		0		0		0.15		0		0.16	

Notes:
mg/kg - milligrams per kilogram or parts per million (ppm).
NS - No Action Levels exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed the comparable cri
PCBs - Polychlorinated Biphenyls.
EPA - EPA 40 CFR 761.61(a)(4) and (5).

Summary of PCB Analytical Results for Concrete Samples -- 2020
Station B
New Haven, Connecticut

AOC: Sample Name: Lab Sample ID: Sample Date:																QA/QC Samples																	
				TRC-AOC-1E-CO-20 (0-0.5")		TRC-AOC-1E-CO-21 (0-0.5")		TRC-AOC-1E-CO-22 (0-0.5")		TRC-AOC-1E-CO-22B (0-0.5")		TRC-AOC-1E-CO-23 (0-0.5")		TRC-AOC-1E-CO-24 (0-0.5")		TRC-AOC-1E-CO-25 (0-0.5")		TRC-AOC-1E-CO-26 (0-0.5")		EB011620-CO		EB011720-CO		EB012420-CO		EB012720-CO		EB012820-CO		EB012920-CO		EB020420-CO	
				20B0201-06		20B0201-07		20B0201-08		20B0201-09		20B0201-10		20B0201-11		20B0201-12		20B0201-13		20A0795-08		20A0795-18		20A1086-14		20A1156-10		20A1236-20		20A1276-09		20B0201-14	
				2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		2/4/2020		1/16/2020		1/17/2020		1/24/2020		1/27/2020		1/28/2020		1/29/2020	
Analysis	Analyte	Unit	EPA Standard					Duplicate of CO-22										Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank		Equipment Blank			
PCB Aroclors																																	
	Aroclor-1016	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1221	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1232	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1242	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1248	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1254	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	0.12		<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1260	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1262	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	Aroclor-1268	mg/kg	NS	<0.097	U	<0.092	U	<0.092	U	<0.098	U	<0.50	U	<0.094	U	<0.095	U	<0.098	U	<0.20	U	<0.20	U	<0.20	U	<0.21	U	<0.21	U	<0.20	U	<0.22	U
	PCBs, Total	mg/kg	1	0		0		0		0		0		0.12		0		0		0		0		0		0		0		0		0	

Notes:
mg/kg - milligrams per kilogram or parts per million (ppm).
NS - No Action Levels exist for this analyte.
U - Analyte was not detected at specified quantitation limit.
Values in **bold** indicate the analyte was detected.
Values shown in bold and shaded type exceed the comparable cri
PCBs - Polychlorinated Biphenyls.
EPA - EPA 40 CFR 761.61(a)(4) and (5).

January 21, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave., New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A0795

Enclosed are results of analyses for samples received by the laboratory on January 17, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 1/21/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A0795

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1A-CO-01 (0-0.5")	20A0795-01	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-02 (0-0.5")	20A0795-02	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-03 (0-0.5")	20A0795-03	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-04 (0-0.5")	20A0795-04	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-05 (0-0.5")	20A0795-05	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-06 (0-0.5")	20A0795-06	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-06B (0-0.5")	20A0795-07	Concrete		SW-846 8082A	
EB011620-CO	20A0795-08	Equipment Blank Water		SW-846 8082A	
TRC-AOC-1A-CO-07 (0-0.5")	20A0795-09	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-08 (0-0.5")	20A0795-10	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-09 (0-0.5")	20A0795-11	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-10 (0-0.5")	20A0795-12	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-11 (0-0.5")	20A0795-13	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-12 (0-0.5")	20A0795-14	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-13 (0-0.5")	20A0795-15	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-14 (0-0.5")	20A0795-16	Concrete		SW-846 8082A	
TRC-AOC-1A-CO-15 (0-0.5")	20A0795-17	Concrete		SW-846 8082A	
EB011720-CO	20A0795-18	Equipment Blank Water		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light pink rectangular background.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-01 (0-0.5") Sampled: 1/16/2020 13:30

Sample ID: 20A0795-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:18	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	54.9	30-150						1/20/20 17:18	
Decachlorobiphenyl [2]	63.8	30-150						1/20/20 17:18	
Tetrachloro-m-xylene [1]	52.4	30-150						1/20/20 17:18	
Tetrachloro-m-xylene [2]	52.6	30-150						1/20/20 17:18	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-02 (0-0.5")

Sampled: 1/16/2020 13:35

Sample ID: 20A0795-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:35	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	46.0	30-150						1/20/20 17:35	
Decachlorobiphenyl [2]	53.8	30-150						1/20/20 17:35	
Tetrachloro-m-xylene [1]	35.4	30-150						1/20/20 17:35	
Tetrachloro-m-xylene [2]	44.7	30-150						1/20/20 17:35	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-03 (0-0.5") Sampled: 1/16/2020 13:40

Sample ID: 20A0795-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 17:53	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.4	30-150						1/20/20 17:53	
Decachlorobiphenyl [2]	73.1	30-150						1/20/20 17:53	
Tetrachloro-m-xylene [1]	54.1	30-150						1/20/20 17:53	
Tetrachloro-m-xylene [2]	66.3	30-150						1/20/20 17:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-04 (0-0.5")

Sampled: 1/16/2020 13:45

Sample ID: 20A0795-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:10	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	49.3	30-150						1/20/20 18:10	
Decachlorobiphenyl [2]	55.4	30-150						1/20/20 18:10	
Tetrachloro-m-xylene [1]	40.3	30-150						1/20/20 18:10	
Tetrachloro-m-xylene [2]	44.6	30-150						1/20/20 18:10	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-05 (0-0.5")

Sampled: 1/16/2020 13:50

Sample ID: 20A0795-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1221 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1232 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1242 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1248 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1254 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1260 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1262 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Aroclor-1268 [1]	ND	0.086	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:28	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	52.9	30-150						1/20/20 18:28	
Decachlorobiphenyl [2]	61.5	30-150						1/20/20 18:28	
Tetrachloro-m-xylene [1]	49.8	30-150						1/20/20 18:28	
Tetrachloro-m-xylene [2]	57.1	30-150						1/20/20 18:28	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-06 (0-0.5")

Sampled: 1/16/2020 13:55

Sample ID: 20A0795-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1221 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1232 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1242 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1248 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1254 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1260 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1262 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Aroclor-1268 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 18:45	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	58.7	30-150						1/20/20 18:45	
Decachlorobiphenyl [2]	68.2	30-150						1/20/20 18:45	
Tetrachloro-m-xylene [1]	48.0	30-150						1/20/20 18:45	
Tetrachloro-m-xylene [2]	51.1	30-150						1/20/20 18:45	

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Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-06B (0-0.5")

Sampled: 1/16/2020 14:00

Sample ID: 20A0795-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:03	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	55.8	30-150						1/20/20 19:03	
Decachlorobiphenyl [2]	65.6	30-150						1/20/20 19:03	
Tetrachloro-m-xylene [1]	53.9	30-150						1/20/20 19:03	
Tetrachloro-m-xylene [2]	63.4	30-150						1/20/20 19:03	

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Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: EB011620-CO

Sampled: 1/16/2020 14:15

Sample ID: 20A0795-08

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:03	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	42.5	30-150						1/21/20 15:03	
Decachlorobiphenyl [2]	46.5	30-150						1/21/20 15:03	
Tetrachloro-m-xylene [1]	56.1	30-150						1/21/20 15:03	
Tetrachloro-m-xylene [2]	67.4	30-150						1/21/20 15:03	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-07 (0-0.5") Sampled: 1/17/2020 10:00

Sample ID: 20A0795-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 19:20	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	40.2	30-150						1/20/20 19:20	
Decachlorobiphenyl [2]	46.7	30-150						1/20/20 19:20	
Tetrachloro-m-xylene [1]	37.4	30-150						1/20/20 19:20	
Tetrachloro-m-xylene [2]	38.5	30-150						1/20/20 19:20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-08 (0-0.5")

Sampled: 1/17/2020 10:05

Sample ID: 20A0795-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1221 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1232 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1242 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1248 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1254 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1260 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1262 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Aroclor-1268 [1]	ND	0.077	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:18	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	45.7	30-150						1/20/20 21:18	
Decachlorobiphenyl [2]	53.2	30-150						1/20/20 21:18	
Tetrachloro-m-xylene [1]	47.0	30-150						1/20/20 21:18	
Tetrachloro-m-xylene [2]	56.0	30-150						1/20/20 21:18	

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Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-09 (0-0.5")

Sampled: 1/17/2020 10:10

Sample ID: 20A0795-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:35	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	44.3	30-150						1/20/20 21:35	
Decachlorobiphenyl [2]	51.3	30-150						1/20/20 21:35	
Tetrachloro-m-xylene [1]	41.6	30-150						1/20/20 21:35	
Tetrachloro-m-xylene [2]	41.0	30-150						1/20/20 21:35	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-10 (0-0.5")

Sampled: 1/17/2020 10:15

Sample ID: 20A0795-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 21:53	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	35.8	30-150						1/20/20 21:53	
Decachlorobiphenyl [2]	41.7	30-150						1/20/20 21:53	
Tetrachloro-m-xylene [1]	34.3	30-150						1/20/20 21:53	
Tetrachloro-m-xylene [2]	35.8	30-150						1/20/20 21:53	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-11 (0-0.5")

Sampled: 1/17/2020 10:20

Sample ID: 20A0795-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:11	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	51.4	30-150						1/20/20 22:11	
Decachlorobiphenyl [2]	59.3	30-150						1/20/20 22:11	
Tetrachloro-m-xylene [1]	39.1	30-150						1/20/20 22:11	
Tetrachloro-m-xylene [2]	52.0	30-150						1/20/20 22:11	

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Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-12 (0-0.5")

Sampled: 1/17/2020 10:25

Sample ID: 20A0795-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1221 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1232 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1242 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1248 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1254 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1260 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1262 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Aroclor-1268 [1]	ND	0.071	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:28	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	54.1	30-150						1/20/20 22:28	
Decachlorobiphenyl [2]	63.0	30-150						1/20/20 22:28	
Tetrachloro-m-xylene [1]	38.6	30-150						1/20/20 22:28	
Tetrachloro-m-xylene [2]	50.1	30-150						1/20/20 22:28	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-13 (0-0.5")

Sampled: 1/17/2020 10:30

Sample ID: 20A0795-15

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 22:45	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	53.9	30-150						1/20/20 22:45	
Decachlorobiphenyl [2]	62.5	30-150						1/20/20 22:45	
Tetrachloro-m-xylene [1]	45.3	30-150						1/20/20 22:45	
Tetrachloro-m-xylene [2]	45.3	30-150						1/20/20 22:45	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-14 (0-0.5") Sampled: 1/17/2020 10:35

Sample ID: 20A0795-16

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1221 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1232 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1242 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1248 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1254 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1260 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1262 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Aroclor-1268 [1]	ND	0.090	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:03	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	54.1	30-150						1/20/20 23:03	
Decachlorobiphenyl [2]	63.0	30-150						1/20/20 23:03	
Tetrachloro-m-xylene [1]	46.1	30-150						1/20/20 23:03	
Tetrachloro-m-xylene [2]	55.2	30-150						1/20/20 23:03	

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Project Location: 510A Grand Ave., New Haven, CT Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: TRC-AOC-1A-CO-15 (0-0.5") Sampled: 1/17/2020 10:40

Sample ID: 20A0795-17

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1221 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1232 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1242 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1248 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1254 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1260 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1262 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Aroclor-1268 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/19/20	1/20/20 23:20	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	50.2	30-150						1/20/20 23:20	
Decachlorobiphenyl [2]	59.0	30-150						1/20/20 23:20	
Tetrachloro-m-xylene [1]	38.7	30-150						1/20/20 23:20	
Tetrachloro-m-xylene [2]	45.6	30-150						1/20/20 23:20	

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Project Location: 510A Grand Ave., New Haven, CT

Sample Description:

Work Order: 20A0795

Date Received: 1/17/2020

Field Sample #: EB011720-CO

Sampled: 1/17/2020 13:00

Sample ID: 20A0795-18

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	1/18/20	1/21/20 15:15	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	40.3	30-150						1/21/20 15:15	
Decachlorobiphenyl [2]	43.4	30-150						1/21/20 15:15	
Tetrachloro-m-xylene [1]	52.3	30-150						1/21/20 15:15	
Tetrachloro-m-xylene [2]	64.0	30-150						1/21/20 15:15	

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Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A0795-01 [TRC-AOC-1A-CO-01 (0-0.5")]	B250352	2.01	10.0	01/19/20
20A0795-02 [TRC-AOC-1A-CO-02 (0-0.5")]	B250352	2.11	10.0	01/19/20
20A0795-03 [TRC-AOC-1A-CO-03 (0-0.5")]	B250352	2.30	10.0	01/19/20
20A0795-04 [TRC-AOC-1A-CO-04 (0-0.5")]	B250352	2.02	10.0	01/19/20
20A0795-05 [TRC-AOC-1A-CO-05 (0-0.5")]	B250352	2.32	10.0	01/19/20
20A0795-06 [TRC-AOC-1A-CO-06 (0-0.5")]	B250352	2.60	10.0	01/19/20
20A0795-07 [TRC-AOC-1A-CO-06B (0-0.5")]	B250352	2.10	10.0	01/19/20
20A0795-09 [TRC-AOC-1A-CO-07 (0-0.5")]	B250352	2.12	10.0	01/19/20
20A0795-10 [TRC-AOC-1A-CO-08 (0-0.5")]	B250352	2.61	10.0	01/19/20
20A0795-11 [TRC-AOC-1A-CO-09 (0-0.5")]	B250352	2.23	10.0	01/19/20
20A0795-12 [TRC-AOC-1A-CO-10 (0-0.5")]	B250352	2.21	10.0	01/19/20
20A0795-13 [TRC-AOC-1A-CO-11 (0-0.5")]	B250352	2.01	10.0	01/19/20
20A0795-14 [TRC-AOC-1A-CO-12 (0-0.5")]	B250352	2.81	10.0	01/19/20
20A0795-15 [TRC-AOC-1A-CO-13 (0-0.5")]	B250352	2.22	10.0	01/19/20
20A0795-16 [TRC-AOC-1A-CO-14 (0-0.5")]	B250352	2.22	10.0	01/19/20
20A0795-17 [TRC-AOC-1A-CO-15 (0-0.5")]	B250352	2.41	10.0	01/19/20

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A0795-08 [EB011620-CO]	B250340	980	10.0	01/18/20
20A0795-18 [EB011720-CO]	B250340	1000	10.0	01/18/20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B250340 - SW-846 3510C										
Blank (B250340-BLK1)										
Prepared: 01/18/20 Analyzed: 01/21/20										
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Total PCB Aroclors	0.0		µg/L							
Surrogate: Decachlorobiphenyl	0.994		µg/L	2.00		49.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		µg/L	2.00		53.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.26		µg/L	2.00		62.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.51		µg/L	2.00		75.4	30-150			
LCS (B250340-BS1)										
Prepared: 01/18/20 Analyzed: 01/21/20										
Aroclor-1016	0.27	0.20	µg/L	0.500		54.2	40-140			
Aroclor-1016 [2C]	0.31	0.20	µg/L	0.500		61.8	40-140			
Aroclor-1260	0.22	0.20	µg/L	0.500		44.5	40-140			
Aroclor-1260 [2C]	0.23	0.20	µg/L	0.500		45.8	40-140			
Surrogate: Decachlorobiphenyl	0.665		µg/L	2.00		33.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.723		µg/L	2.00		36.1	30-150			
Surrogate: Tetrachloro-m-xylene	1.07		µg/L	2.00		53.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.30		µg/L	2.00		65.0	30-150			
LCS Dup (B250340-BSD1)										
Prepared: 01/18/20 Analyzed: 01/21/20										
Aroclor-1016	0.26	0.20	µg/L	0.500		52.2	40-140	3.74	20	
Aroclor-1016 [2C]	0.29	0.20	µg/L	0.500		59.0	40-140	4.60	20	
Aroclor-1260	0.24	0.20	µg/L	0.500		47.1	40-140	5.80	20	
Aroclor-1260 [2C]	0.25	0.20	µg/L	0.500		49.5	40-140	7.82	20	
Surrogate: Decachlorobiphenyl	0.746		µg/L	2.00		37.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.805		µg/L	2.00		40.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.941		µg/L	2.00		47.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.16		µg/L	2.00		58.0	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250352 - SW-846 3540C
Blank (B250352-BLK1)

Prepared: 01/19/20 Analyzed: 01/20/20

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	0.459		mg/Kg	1.00		45.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.528		mg/Kg	1.00		52.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.517		mg/Kg	1.00		51.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.528		mg/Kg	1.00		52.8	30-150			

LCS (B250352-BS1)

Prepared: 01/19/20 Analyzed: 01/21/20

Aroclor-1016	0.63	0.10	mg/Kg	1.00		63.4	40-140			
Aroclor-1016 [2C]	0.65	0.10	mg/Kg	1.00		65.2	40-140			
Aroclor-1260	0.60	0.10	mg/Kg	1.00		59.6	40-140			
Aroclor-1260 [2C]	0.61	0.10	mg/Kg	1.00		61.1	40-140			
Surrogate: Decachlorobiphenyl	0.658		mg/Kg	1.00		65.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.680		mg/Kg	1.00		68.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.668		mg/Kg	1.00		66.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.681		mg/Kg	1.00		68.1	30-150			

LCS Dup (B250352-BSD1)

Prepared: 01/19/20 Analyzed: 01/21/20

Aroclor-1016	0.81	0.10	mg/Kg	1.00		80.7	40-140	24.1	30	
Aroclor-1016 [2C]	0.83	0.10	mg/Kg	1.00		83.1	40-140	24.1	30	
Aroclor-1260	0.76	0.10	mg/Kg	1.00		76.2	40-140	24.4	30	
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		78.8	40-140	25.2	30	
Surrogate: Decachlorobiphenyl	0.854		mg/Kg	1.00		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.870		mg/Kg	1.00		87.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.861		mg/Kg	1.00		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.869		mg/Kg	1.00		86.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250352 - SW-846 3540C

Matrix Spike (B250352-MS1)

Source: 20A0795-05

Prepared: 01/19/20 Analyzed: 01/20/20

Aroclor-1016	0.55	0.090	mg/Kg	0.901	ND	60.5	40-140			
Aroclor-1016 [2C]	0.62	0.090	mg/Kg	0.901	ND	68.7	40-140			
Aroclor-1260	0.48	0.090	mg/Kg	0.901	ND	53.7	40-140			
Aroclor-1260 [2C]	0.55	0.090	mg/Kg	0.901	ND	60.7	40-140			
Surrogate: Decachlorobiphenyl	0.501		mg/Kg	0.901		55.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.584		mg/Kg	0.901		64.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.439		mg/Kg	0.901		48.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.542		mg/Kg	0.901		60.2	30-150			

Matrix Spike Dup (B250352-MSD1)

Source: 20A0795-05

Prepared: 01/19/20 Analyzed: 01/20/20

Aroclor-1016	0.52	0.087	mg/Kg	0.866	ND	59.5	40-140	5.64	50	
Aroclor-1016 [2C]	0.56	0.087	mg/Kg	0.866	ND	65.1	40-140	9.31	50	
Aroclor-1260	0.42	0.087	mg/Kg	0.866	ND	48.2	40-140	14.8	50	
Aroclor-1260 [2C]	0.47	0.087	mg/Kg	0.866	ND	53.9	40-140	15.9	50	
Surrogate: Decachlorobiphenyl	0.403		mg/Kg	0.866		46.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.471		mg/Kg	0.866		54.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.378		mg/Kg	0.866		43.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.393		mg/Kg	0.866		45.4	30-150			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250340-BS1 Date(s) Analyzed: 01/21/2020 01/21/2020
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.27	
	2	0.000	0.000	0.000	0.31	13.8
Aroclor-1260	1	0.000	0.000	0.000	0.22	
	2	0.000	0.000	0.000	0.23	4.4

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250340-BSD1 Date(s) Analyzed: 01/21/2020 01/21/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.29	10.9
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.25	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250352-BS1 Date(s) Analyzed: 01/21/2020 01/21/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.63	
	2	0.000	0.000	0.000	0.65	3.1
Aroclor-1260	1	0.000	0.000	0.000	0.60	
	2	0.000	0.000	0.000	0.61	1.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250352-BSD1 Date(s) Analyzed: 01/21/2020 01/21/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.81	
	2	0.000	0.000	0.000	0.83	2.4
Aroclor-1260	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.79	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A
Matrix Spike

Lab Sample ID: B250352-MS1 Date(s) Analyzed: 01/20/2020 01/20/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.55	
	2	0.000	0.000	0.000	0.62	12.0
Aroclor-1260	1	0.000	0.000	0.000	0.48	
	2	0.000	0.000	0.000	0.55	13.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B250352-MSD1 Date(s) Analyzed: 01/20/2020 01/20/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.56	7.4
Aroclor-1260	1	0.000	0.000	0.000	0.42	
	2	0.000	0.000	0.000	0.47	11.2

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020

http://www.contestlabs.com

Doc # 381 Rev 2_06262019

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.comCompany Name: **TRC**Address: **21 Gifford Rd N. Windsor, CT**Phone: **860-298-9693**Project Location: **English Station Parcel A**Project Number: **510A Gifford Ave New Haven, CT**Project Manager: **263951 000028, 000001**Con-Test Quote Name/Number: **B-26180911 English Station**Invoice Recipient: **Carl Stopper**Sampled By: **Matt Blumstein**

ANALYSIS REQUESTED

7-Day	☐	10-Day	☐	Field Filtered	☐
PFAS 10-Day (std)	☐	Due Date:		Lab to Filter	☐
1-Day	☐	3-Day	☐	Field Filtered	☐
2-Day	☒	4-Day	☐	Lab to Filter	☐
Format:	PDF ☒ EXCEL ☒				
Other:					

CLP Like Data Plg Required: ☐

Email To: **Stopper@trc.companies.com**

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP GRAB	Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE
11	TRC-AD-1A-CO-09(0-05)	1/17/20	1010		0						
12	TRC-AD-1A-CO-10(0-05)	1/17/20	1020		0						
13	TRC-AD-1A-CO-11(0-05)	1/17/20	1020		0						
14	TRC-AD-1A-CO-12(0-05)	1/17/20	1025		0						
15	TRC-AD-1A-CO-13(0-05)	1/17/20	1030		0						
16	TRC-AD-1A-CO-14(0-05)	1/17/20	1035		0						
17	TRC-AD-1A-CO-15(0-05)	1/17/20	1040		0						
18	EB011720-CO	1/17/20	1300		W						

Client Comments:

Relinquished by: (signature)	Date/Time: 1/17/20 2:30
Received by: (signature)	Date/Time: 1/17/20 2:30
Relinquished by: (signature)	Date/Time: 1/17/20 7:45
Received by: (signature)	Date/Time: 1/17/20 7:45
Relinquished by: (signature)	Date/Time: 1/17/20 1945
Received by: (signature)	Date/Time: 1/17/20 1945
Relinquished by: (signature)	Date/Time: 1/17/20 1945
Received by: (signature)	Date/Time: 1/17/20 1945
Relinquished by: (signature)	Date/Time: 1/17/20 1945
Received by: (signature)	Date/Time: 1/17/20 1945

Comments:

Page 2 of 2

2 Preservation Code

Conc. Use Only

Total Number Of:

VIALS

GLASS

PLASTIC

BACTERIA

ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

1 Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil

SL = Sludge

SOL = Solid

O = Other (please define)

CONCRETE

2 Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium Thiosulfate

O = Other (please define)

PCB ONLY

Soxhlet ☒

Non Soxhlet ☐

Disclaimers: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

I Have Not Confirmed Sample Container
Numbers With Lab Staff Before Relinquishing
Over Samples _____



con-test®
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False
Statement will be brought to the attention of the Client - State True or False**

Client TRC

Received By BBR Date 1/17/20 Time 1945

How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
Direct from Sampling _____ Ambient _____ Melted Ice _____

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 2.4
By Blank # _____ Actual Temp - _____

Was Custody Seal Intact? n/a Were Samples Tampered with? n/a

Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all Client T Analysis T Sampler Name T
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F

Are there Rushes? T

Are there Short Holds? F

Is there enough Volume? T

Is there Headspace where applicable? n/a

Proper Media/Containers Used? T

Were trip blanks received? F

Do all samples have the proper pH? _____

Who was notified? _____

Who was notified? Ashly

Who was notified? _____

MS/MSD? T

Is splitting samples required? F

On COC? F

Acid n/a Base n/a

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.	<u>2</u>	1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Flashpoint		Col./Bacteria		2oz Amb/Clear
DI-		Other Glass		Other Plastic		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: TRC Environmental Corporation - CT

Project Location: 510A Grand Ave., New Haven, CT

Project Number: 20A0795

Laboratory Sample ID(s):

20A0795-01 thru 20A0795-18

Sample Date(s):

01/16/2020,

01/17/2020

List RCP Methods Used:

SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☒ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☒ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☒ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☒ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☒ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☒ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☒ Yes ☐ No
5B	Were these reporting limits met?	☒ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☒ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☒ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

Lisa A. Worthington

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:
Position: Technical Representative
Printed Name: Lisa A. Worthington
Date: 01/21/20
Name of Laboratory: Con-Test Analytical Laboratory

This certification form is to be used for RCP methods only.

February 3, 2020

Carl Stopper
TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095

Project Location: 510A Grand Ave, New Haven, CT
Client Job Number:
Project Number: 263951.000028.000001
Laboratory Work Order Number: 20A1086

Enclosed are results of analyses for samples received by the laboratory on January 24, 2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Kerry K. McGee". The signature is written in a cursive, flowing style.

Kerry K. McGee
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

TRC Environmental Corporation - CT
21 Griffin Road North
Windsor, CT 06095
ATTN: Carl Stopper

REPORT DATE: 2/3/2020

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 263951.000028.000001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 20A1086

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510A Grand Ave, New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TRC-AOC-1A-CO-16 (0-0.5")	20A1086-01	Product/Solid		SW-846 8082A	
TRC-AOC-1A-CO-17 (0-0.5")	20A1086-02	Product/Solid		SW-846 8082A	
TRC-AOC-1A-CO-18 (0-0.5")	20A1086-03	Product/Solid		SW-846 8082A	
TRC-AOC-1A-CO-19 (0-0.5")	20A1086-04	Product/Solid		SW-846 8082A	
TRC-AOC-1A-CO-20 (0-0.5")	20A1086-05	Product/Solid		SW-846 8082A	
TRC-AOC-1A-CO-21 (0-0.5")	20A1086-06	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-01 (0-0.5")	20A1086-07	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-02 (0-0.5")	20A1086-08	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-03 (0-0.5")	20A1086-09	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-02B (0-0.5")	20A1086-10	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-04 (0-0.5")	20A1086-11	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-05 (0-0.5")	20A1086-12	Product/Solid		SW-846 8082A	
TRC-AOC-1B-CO-06 (0-0.5")	20A1086-13	Product/Solid		SW-846 8082A	
EB012420-CO	20A1086-14	Equipment Blank Water		SW-846 8082A	

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Technical Representative

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-16 (0-0.5")

Sampled: 1/24/2020 08:10

Sample ID: 20A1086-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:41	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	87.3	30-150						1/31/20 14:41	
Decachlorobiphenyl [2]	99.7	30-150						1/31/20 14:41	
Tetrachloro-m-xylene [1]	91.0	30-150						1/31/20 14:41	
Tetrachloro-m-xylene [2]	110	30-150						1/31/20 14:41	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-17 (0-0.5")

Sampled: 1/24/2020 08:15

Sample ID: 20A1086-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 14:54	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.3	30-150						1/31/20 14:54	
Decachlorobiphenyl [2]	97.8	30-150						1/31/20 14:54	
Tetrachloro-m-xylene [1]	85.5	30-150						1/31/20 14:54	
Tetrachloro-m-xylene [2]	103	30-150						1/31/20 14:54	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-18 (0-0.5")

Sampled: 1/24/2020 08:20

Sample ID: 20A1086-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:06	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.8	30-150						1/31/20 15:06	
Decachlorobiphenyl [2]	83.6	30-150						1/31/20 15:06	
Tetrachloro-m-xylene [1]	80.4	30-150						1/31/20 15:06	
Tetrachloro-m-xylene [2]	95.7	30-150						1/31/20 15:06	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-19 (0-0.5")

Sampled: 1/24/2020 08:25

Sample ID: 20A1086-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:19	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.4	30-150						1/31/20 15:19	
Decachlorobiphenyl [2]	96.6	30-150						1/31/20 15:19	
Tetrachloro-m-xylene [1]	90.9	30-150						1/31/20 15:19	
Tetrachloro-m-xylene [2]	109	30-150						1/31/20 15:19	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-20 (0-0.5")

Sampled: 1/24/2020 08:30

Sample ID: 20A1086-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:31	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.4	30-150						1/31/20 15:31	
Decachlorobiphenyl [2]	91.7	30-150						1/31/20 15:31	
Tetrachloro-m-xylene [1]	81.7	30-150						1/31/20 15:31	
Tetrachloro-m-xylene [2]	96.4	30-150						1/31/20 15:31	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1A-CO-21 (0-0.5")

Sampled: 1/24/2020 08:35

Sample ID: 20A1086-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:44	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	91.2	30-150						1/31/20 15:44	
Decachlorobiphenyl [2]	102	30-150						1/31/20 15:44	
Tetrachloro-m-xylene [1]	93.5	30-150						1/31/20 15:44	
Tetrachloro-m-xylene [2]	112	30-150						1/31/20 15:44	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-01 (0-0.5")

Sampled: 1/24/2020 08:50

Sample ID: 20A1086-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 15:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.6	30-150						1/31/20 15:56	
Decachlorobiphenyl [2]	104	30-150						1/31/20 15:56	
Tetrachloro-m-xylene [1]	93.3	30-150						1/31/20 15:56	
Tetrachloro-m-xylene [2]	112	30-150						1/31/20 15:56	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-02 (0-0.5")

Sampled: 1/24/2020 08:55

Sample ID: 20A1086-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:46	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.9	30-150						1/31/20 16:46	
Decachlorobiphenyl [2]	85.5	30-150						1/31/20 16:46	
Tetrachloro-m-xylene [1]	78.3	30-150						1/31/20 16:46	
Tetrachloro-m-xylene [2]	95.3	30-150						1/31/20 16:46	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-03 (0-0.5")

Sampled: 1/24/2020 09:05

Sample ID: 20A1086-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 16:58	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.6	30-150						1/31/20 16:58	
Decachlorobiphenyl [2]	92.7	30-150						1/31/20 16:58	
Tetrachloro-m-xylene [1]	84.1	30-150						1/31/20 16:58	
Tetrachloro-m-xylene [2]	102	30-150						1/31/20 16:58	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-02B (0-0.5")

Sampled: 1/24/2020 09:00

Sample ID: 20A1086-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1221 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1232 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1242 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1248 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1254 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1260 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1262 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Aroclor-1268 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:10	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150						1/31/20 17:10	
Decachlorobiphenyl [2]	97.4	30-150						1/31/20 17:10	
Tetrachloro-m-xylene [1]	88.5	30-150						1/31/20 17:10	
Tetrachloro-m-xylene [2]	107	30-150						1/31/20 17:10	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-04 (0-0.5")

Sampled: 1/24/2020 09:10

Sample ID: 20A1086-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:23	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.9	30-150						1/31/20 17:23	
Decachlorobiphenyl [2]	96.1	30-150						1/31/20 17:23	
Tetrachloro-m-xylene [1]	90.0	30-150						1/31/20 17:23	
Tetrachloro-m-xylene [2]	109	30-150						1/31/20 17:23	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-05 (0-0.5")

Sampled: 1/24/2020 09:15

Sample ID: 20A1086-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1221 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1232 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1242 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1248 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1254 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1260 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1262 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Aroclor-1268 [1]	ND	0.069	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:35	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.9	30-150						1/31/20 17:35	
Decachlorobiphenyl [2]	101	30-150						1/31/20 17:35	
Tetrachloro-m-xylene [1]	87.2	30-150						1/31/20 17:35	
Tetrachloro-m-xylene [2]	105	30-150						1/31/20 17:35	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: TRC-AOC-1B-CO-06 (0-0.5")

Sampled: 1/24/2020 09:20

Sample ID: 20A1086-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Total PCB Aroclors [1]	0.0		mg/Kg	1		SW-846 8082A	1/27/20	1/31/20 17:48	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	92.0	30-150						1/31/20 17:48	
Decachlorobiphenyl [2]	104	30-150						1/31/20 17:48	
Tetrachloro-m-xylene [1]	91.4	30-150						1/31/20 17:48	
Tetrachloro-m-xylene [2]	110	30-150						1/31/20 17:48	

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Project Location: 510A Grand Ave, New Haven, CT

Sample Description:

Work Order: 20A1086

Date Received: 1/24/2020

Field Sample #: EB012420-CO

Sampled: 1/24/2020 09:45

Sample ID: 20A1086-14

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Total PCB Aroclors [1]	0.0		µg/L	1		SW-846 8082A	1/27/20	1/29/20 14:42	WAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	79.9	30-150						1/29/20 14:42	
Decachlorobiphenyl [2]	84.8	30-150						1/29/20 14:42	
Tetrachloro-m-xylene [1]	76.7	30-150						1/29/20 14:42	
Tetrachloro-m-xylene [2]	81.8	30-150						1/29/20 14:42	

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Sample Extraction Data**Prep Method: SW-846 3540C-SW-846 8082A**

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
20A1086-01 [TRC-AOC-1A-CO-16 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-02 [TRC-AOC-1A-CO-17 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-03 [TRC-AOC-1A-CO-18 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-04 [TRC-AOC-1A-CO-19 (0-0.5")]	B250878	2.40	10.0	01/27/20
20A1086-05 [TRC-AOC-1A-CO-20 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-06 [TRC-AOC-1A-CO-21 (0-0.5")]	B250878	2.00	10.0	01/27/20
20A1086-07 [TRC-AOC-1B-CO-01 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-08 [TRC-AOC-1B-CO-02 (0-0.5")]	B250878	2.10	10.0	01/27/20
20A1086-09 [TRC-AOC-1B-CO-03 (0-0.5")]	B250878	2.00	10.0	01/27/20
20A1086-10 [TRC-AOC-1B-CO-02B (0-0.5")]	B250878	2.90	10.0	01/27/20
20A1086-11 [TRC-AOC-1B-CO-04 (0-0.5")]	B250878	2.00	10.0	01/27/20
20A1086-12 [TRC-AOC-1B-CO-05 (0-0.5")]	B250878	2.90	10.0	01/27/20
20A1086-13 [TRC-AOC-1B-CO-06 (0-0.5")]	B250878	2.10	10.0	01/27/20

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
20A1086-14 [EB012420-CO]	B250894	985	10.0	01/27/20

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QUALITY CONTROL
Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250894 - SW-846 3510C
Blank (B250894-BLK1)

Prepared: 01/27/20 Analyzed: 01/28/20

Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Total PCB Aroclors	0.0		µg/L							
Surrogate: Decachlorobiphenyl	1.24		µg/L	2.00		62.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.41		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.24		µg/L	2.00		61.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.47		µg/L	2.00		73.3	30-150			

LCS (B250894-BS1)

Prepared: 01/27/20 Analyzed: 01/28/20

Aroclor-1016	0.36	0.20	µg/L	0.500		71.5	40-140			
Aroclor-1016 [2C]	0.36	0.20	µg/L	0.500		72.4	40-140			
Aroclor-1260	0.35	0.20	µg/L	0.500		70.0	40-140			
Aroclor-1260 [2C]	0.37	0.20	µg/L	0.500		73.9	40-140			
Surrogate: Decachlorobiphenyl	1.29		µg/L	2.00		64.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.46		µg/L	2.00		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	1.17		µg/L	2.00		58.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.38		µg/L	2.00		69.2	30-150			

LCS Dup (B250894-BSD1)

Prepared: 01/27/20 Analyzed: 01/28/20

Aroclor-1016	0.35	0.20	µg/L	0.500		70.0	40-140	2.15	20	
Aroclor-1016 [2C]	0.36	0.20	µg/L	0.500		72.5	40-140	0.196	20	
Aroclor-1260	0.36	0.20	µg/L	0.500		72.9	40-140	4.04	20	
Aroclor-1260 [2C]	0.38	0.20	µg/L	0.500		75.1	40-140	1.60	20	
Surrogate: Decachlorobiphenyl	1.44		µg/L	2.00		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.64		µg/L	2.00		82.2	30-150			
Surrogate: Tetrachloro-m-xylene	1.22		µg/L	2.00		60.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.43		µg/L	2.00		71.5	30-150			

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QUALITY CONTROL
Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250878 - SW-846 3540C
Blank (B250878-BLK1)

Prepared: 01/27/20 Analyzed: 01/31/20

Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Total PCB Aroclors	0.0		mg/Kg							
Surrogate: Decachlorobiphenyl	0.940		mg/Kg	1.00		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.07		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	0.895		mg/Kg	1.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.05		mg/Kg	1.00		105	30-150			

LCS (B250878-BS1)

Prepared: 01/27/20 Analyzed: 01/31/20

Aroclor-1016	0.79	0.10	mg/Kg	1.00		79.4	40-140			
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		91.5	40-140			
Aroclor-1260	0.76	0.10	mg/Kg	1.00		75.9	40-140			
Aroclor-1260 [2C]	0.90	0.10	mg/Kg	1.00		89.7	40-140			
Surrogate: Decachlorobiphenyl	0.865		mg/Kg	1.00		86.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.988		mg/Kg	1.00		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.828		mg/Kg	1.00		82.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.971		mg/Kg	1.00		97.1	30-150			

LCS Dup (B250878-BSD1)

Prepared: 01/27/20 Analyzed: 01/31/20

Aroclor-1016	0.83	0.10	mg/Kg	1.00		82.8	40-140	4.11	30	
Aroclor-1016 [2C]	0.98	0.10	mg/Kg	1.00		97.8	40-140	6.58	30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		80.1	40-140	5.30	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		93.3	40-140	3.99	30	
Surrogate: Decachlorobiphenyl	0.909		mg/Kg	1.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.04		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	0.889		mg/Kg	1.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.04		mg/Kg	1.00		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B250878 - SW-846 3540C

Matrix Spike (B250878-MS1)		Source: 20A1086-09			Prepared: 01/27/20 Analyzed: 01/31/20					
Aroclor-1016	0.73	0.087	mg/Kg	0.870	ND	83.4	40-140			
Aroclor-1016 [2C]	0.83	0.087	mg/Kg	0.870	ND	95.4	40-140			
Aroclor-1260	0.73	0.087	mg/Kg	0.870	ND	83.5	40-140			
Aroclor-1260 [2C]	0.83	0.087	mg/Kg	0.870	ND	95.7	40-140			
Surrogate: Decachlorobiphenyl	0.773		mg/Kg	0.870		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.873		mg/Kg	0.870		100	30-150			
Surrogate: Tetrachloro-m-xylene	0.774		mg/Kg	0.870		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.936		mg/Kg	0.870		108	30-150			
Matrix Spike Dup (B250878-MSD1)		Source: 20A1086-09			Prepared: 01/27/20 Analyzed: 01/31/20					
Aroclor-1016	0.76	0.095	mg/Kg	0.952	ND	80.0	40-140	4.92	50	
Aroclor-1016 [2C]	0.86	0.095	mg/Kg	0.952	ND	90.2	40-140	3.43	50	
Aroclor-1260	0.75	0.095	mg/Kg	0.952	ND	78.9	40-140	3.48	50	
Aroclor-1260 [2C]	0.87	0.095	mg/Kg	0.952	ND	91.2	40-140	4.36	50	
Surrogate: Decachlorobiphenyl	0.790		mg/Kg	0.952		82.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.894		mg/Kg	0.952		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.803		mg/Kg	0.952		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.968		mg/Kg	0.952		102	30-150			

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250878-BS1 Date(s) Analyzed: 01/31/2020 01/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.92	15.2
Aroclor-1260	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.90	16.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250878-BSD1 Date(s) Analyzed: 01/31/2020 01/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.98	16.6
Aroclor-1260	1	0.000	0.000	0.000	0.80	
	2	0.000	0.000	0.000	0.93	15.0

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike**Lab Sample ID: B250878-MS1 Date(s) Analyzed: 01/31/2020 01/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.83	12.8
Aroclor-1260	1	0.000	0.000	0.000	0.73	
	2	0.000	0.000	0.000	0.83	12.8

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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike Dup**Lab Sample ID: B250878-MSD1 Date(s) Analyzed: 01/31/2020 01/31/2020

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.76	
	2	0.000	0.000	0.000	0.86	12.3
Aroclor-1260	1	0.000	0.000	0.000	0.75	
	2	0.000	0.000	0.000	0.87	14.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B250894-BS1 Date(s) Analyzed: 01/28/2020 01/28/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.36	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.37	5.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B250894-BSD1 Date(s) Analyzed: 01/28/2020 01/28/2020

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.36	2.8
Aroclor-1260	1	0.000	0.000	0.000	0.36	
	2	0.000	0.000	0.000	0.38	5.4

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit is at the level of quantitation (LOQ)
DL	Detection Limit is the lower limit of detection determined by the MDL study
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.

CERTIFICATIONS
Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Product/Solid</i>	
Aroclor-1016	CT,NH,NY,ME,NC,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221	CT,NH,NY,ME,NC,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232	CT,NH,NY,ME,NC,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242	CT,NH,NY,ME,NC,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248	CT,NH,NY,ME,NC,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254	CT,NH,NY,ME,NC,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260	CT,NH,NY,ME,NC,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA,PA
Aroclor-1262	NY,NC,VA,PA
Aroclor-1262 [2C]	NY,NC,VA,PA
Aroclor-1268	NY,NC,VA,PA
Aroclor-1268 [2C]	NY,NC,VA,PA
<i>SW-846 8082A in Water</i>	
Aroclor-1016	CT,NH,NY,NC,ME,VA,PA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221	CT,NH,NY,NC,ME,VA,PA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232	CT,NH,NY,NC,ME,VA,PA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242	CT,NH,NY,NC,ME,VA,PA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248	CT,NH,NY,NC,ME,VA,PA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254	CT,NH,NY,NC,ME,VA,PA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260	CT,NH,NY,NC,ME,VA,PA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA,PA
Aroclor-1262	NH,NY,NC,ME,VA,PA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA,PA
Aroclor-1268	NH,NY,NC,ME,VA,PA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA,PA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2017	100033	03/1/2022
MA	Massachusetts DEP	M-MA100	06/30/2020
CT	Connecticut Department of Public Health	PH-0567	09/30/2021
NY	New York State Department of Health	10899 NELAP	04/1/2020
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2020
RI	Rhode Island Department of Health	LAO00112	12/30/2020
NC	North Carolina Div. of Water Quality	652	12/31/2020
NJ	New Jersey DEP	MA007 NELAP	06/30/2020
FL	Florida Department of Health	E871027 NELAP	06/30/2020
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2020
ME	State of Maine	2011028	06/9/2021
VA	Commonwealth of Virginia	460217	12/14/2020
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2020
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2020
NC-DW	North Carolina Department of Health	25703	07/31/2020
PA	Commonwealth of Pennsylvania DEP	68-05812	06/30/2020