

Preliminary Data from East Palestine (Ohio) Train Derailment for Volatile Organics											
Samples collected by Ohio River Valley Water Sanitation Commission (ORSANCO); Analyzed by Greater Cincinnati Water Works (GCWW)											
Ref	Site Description	City	State	River	Stream Mile Point	Sample Depth	Date	Time	n-Butyl Acrylate (ppb)	other VOCs (ppb)	Vinyl Chloride (ppb)
1	Grimms Bridge	East Liverpool	OH	Little Beaver Creek	3.0	Surface Grab	2/8/2023	1305	4.40	<0.50	<0.50
2	Lock 57 Park	Ohioville	PA	Little Beaver Creek	0.2	Surface Grab	2/8/2023	1330	12.5	<0.50	<0.50
3	East Liverpool	East Liverpool	OH	Ohio River	40.2	Intake: 10 ft	2/8/2023	1345	<1.00	<0.50	<0.50
4	Buckeye	Wellsville	OH	Ohio River	47.1	Intake: N/A	2/8/2023	1430	2.94	<0.50	<0.50
5	Toronto	Toronto	OH	Ohio River	59.2	Intake: 19 ft	2/8/2023	1515	<1.00	<0.50	<0.50
6	Steubenville	Steubenville	OH	Ohio River	65.3	Intake: 18 ft	2/8/2023	1550	1.23	<0.50	<0.50
7	Pike Island L&D	Wheeling	WV	Ohio River	84.2	Surface Grab	2/8/2023	1715	4.30	<0.50	<0.50
8	Bellaire	Bellaire	OH	Ohio River	93.9	Intake: N/A	2/8/2023	1805	<1.00	<0.50	<0.50
9	New Matamoras Boat Ramp	New Matamoras	OH	Ohio River	142.1	Surface Grab	2/12/2023	1330	<1.00	<0.50	<0.50
10	Wayne National Forest Boat Ramp	Grandview Township	OH	Ohio River	148.6	Surface Grab	2/12/2023	1400	<1.00	<0.50	<0.50
11	The Jug Dock	Newport	OH	Ohio River	155.7	Surface Grab	2/12/2023	1420	1.63	<0.50	<0.50
12	Campground Boat Launch	Reno	OH	Ohio River	167.8	Surface Grab	2/12/2023	1440	2.16	<0.50	<0.50
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/12/2023	1500	1.47	<0.50	<0.50
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/12/2023	1535	<1.00	<0.50	<0.50
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/12/2023	1600	<1.00	<0.50	<0.50
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/12/2023	1630	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/12/2023	1650	<1.00	<0.50	<0.50
12	Campground Boat Launch	Reno	OH	Ohio River	167.8	Surface Grab	2/13/2023	1110	<1.00	<0.50	<0.50
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/13/2023	1140	<1.00	<0.50	<0.50
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/13/2023	1210	1.86	<0.50	<0.50
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/13/2023	1240	<1.00	<0.50	<0.50
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/13/2023	1345	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/13/2023	1415	<1.00	<0.50	<0.50
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/13/2023	1505	<1.00	<0.50	<0.50
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/13/2023	1530	<1.00	<0.50	<0.50
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/14/2023	1245	<1.00	<0.50	<0.50
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/14/2023	1320	<1.00	<0.50	<0.50
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/14/2023	1435	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/14/2023	1500	<1.00	<0.50	<0.50
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/14/2023	1535	<1.00	<0.50	<0.50
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/14/2023	1620	<1.00	<0.50	<0.50
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/14/2023	1645	<1.00	<0.50	<0.50
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/14/2023	1720	<1.00	<0.50	<0.50
10	Wayne National Forest Boat Ramp	Grandview Township	OH	Ohio River	148.6	Surface Grab	2/15/2023	1625	<1.00	<0.50	<0.50
12	Campground Boat Launch	Reno	OH	Ohio River	167.8	Surface Grab	2/15/2023	1555	<1.00	<0.50	<0.50
13	Public Launch Ramp	Williamstown	WV	Ohio River	172.0	Surface Grab	2/15/2023	1520	<1.00	<0.50	<0.50
14	Point Park	Parkersburg	WV	Ohio River	184.5	Surface Grab	2/15/2023	1430	<1.00	<0.50	<0.50
15	Belpre Boat Ramp	Belpre	OH	Ohio River	186.1	Surface Grab	2/15/2023	1410	<1.00	<0.50	<0.50
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/15/2023	1340	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/15/2023	1320	<1.00	<0.50	<0.50
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/15/2023	1235	1.29	<0.50	<0.50
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/15/2023	1210	1.62	<0.50	<0.50
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/15/2023	1150	<1.00	<0.50	<0.50
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/15/2023	1130	1.44	<0.50	<0.50
22	Village of Syracuse Ramp	Syracuse	OH	Ohio River	245.5	Surface Grab	2/15/2023	1105	<1.00	<0.50	<0.50
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/15/2023	1035	<1.00	<0.50	<0.50
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/15/2023	0945	<1.00	<0.50	<0.50
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/15/2023	0915	<1.00	<0.50	<0.50
16	Athens Boat Club Dock	Hockingport	OH	Ohio River	199.3	Surface Grab	2/16/2023	1315	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/16/2023	1340	<1.00	<0.50	<0.50
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/16/2023	1410	<1.00	<0.50	<0.50
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/16/2023	1425	<1.00	<0.50	<0.50
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/16/2023	1445	<1.00	<0.50	<0.50
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/16/2023	1500	<1.00	<0.50	<0.50
22	Village of Syracuse Ramp	Syracuse	OH	Ohio River	245.5	Surface Grab	2/16/2023	1530	<1.00	<0.50	<0.50
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/16/2023	1550	1.18	<0.50	<0.50
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/16/2023	1620	<1.00	<0.50	<0.50
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/16/2023	1645	<1.00	<0.50	<0.50
26	RC Byrd Lock & Dam	Gallipolis Ferry	WV	Ohio River	279.2	Surface Grab	2/16/2023	1725	<1.00	<0.50	<0.50
17	Forked Run Ramp	Olive Township	OH	Ohio River	207.0	Surface Grab	2/17/2023	1350	<1.00	<0.50	<0.50
18	Ravenswood Public Boat Launch	Ravenswood	WV	Ohio River	221.1	Surface Grab	2/17/2023	1245	<1.00	<0.50	<0.50
19	Private Dock	Letart Township	OH	Ohio River	226.8	Surface Grab	2/17/2023	1230	<1.00	<0.50	<0.50
20	Old Lock & Dam 23	Apple Grove	OH	Ohio River	231.5	Surface Grab	2/17/2023	1210	<1.00	<0.50	<0.50
21	Racine Hydro	Racine	OH	Ohio River	237.7	Surface Grab	2/17/2023	1155	<1.00	<0.50	<0.50
23	Mason Public Ramp	Mason	WV	Ohio River	250.2	Surface Grab	2/17/2023	1125	<1.00	<0.50	<0.50
24	Cheshire Public Ramp	Cheshire	OH	Ohio River	257.8	Surface Grab	2/17/2023	1055	<1.00	<0.50	<0.50
25	Gallipolis Riverfront Boat Access	Gallipolis	OH	Ohio River	270.1	Surface Grab	2/17/2023	1025	1.01	<0.50	<0.50
26	RC Byrd Lock & Dam	Gallipolis Ferry	WV	Ohio River	279.2	Surface Grab	2/17/2023	1005	<1.00	<0.50	<0.50
27	KH Butler Fishing Access	Crown City	OH	Ohio River	284.5	Surface Grab	2/17/2023	0945	<1.00	<0.50	<0.50
28	Athalia Boat Ramp	Athalia	OH	Ohio River	296.6	Surface Grab	2/17/2023	0915	<1.00	<0.50	<0.50
29	Old Lock & Dam 27	Proctorville	OH	Ohio River	301.1	Surface Grab	2/17/2023	0905	<1.00	<0.50	<0.50
30	Harris Park Public Ramp	Huntington	WV	Ohio River	308.1	Surface Grab	2/17/2023	0830	<1.00	<0.50	<0.50

Highlighted in gray are the most recent Ohio River samples collected by ORSANCO and analyzed by Greater Cincinnati Water Works with permission to share. Samples were collected on February 16-17, 2023 and reflect the most recent data available. We will update this table as new data becomes available. There were quantifiable low level detections in Mason, WV on the 16th, and in Gallipolis, OH on the 17th. All other locations are currently below the 1.00ppb detection level. The ATSDR Health Guidance Value listed below is for Finished Drinking Water, whereas all samples above are raw water, collected directly from the Ohio River.

Updated ATSDR comparison Values for Drinking Water- 02/11/23		
based off derivation worksheet		
Analyte	Screen Value, ppb	Source
n-Butyl acrylate	560	ATSDR Provisional Health Guidance Value (HGV)
2-ethylhexyl acrylate	500	ATSDR Provisional Health Guidance Value (HGV)