Feeney, John M - DNR

From: Ashley Wagner, PG <awagner@kapurinc.com>
Sent: Wednesday, October 20, 2021 7:09 PM
To: Feeney, John M - DNR
Subject: Barton Products - Hron Rd West Bend
Attachments: Hron Road Data Tables 2nd post injection.pdf

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Hi John,
We have recently received analytical results from our 2nd post-injection sampling event.

We have done 2 rounds of groundwater monitoring, and 1 round of sub-slab vapor sampling since the injection completion in May.

I am looking for guidance as to if we will be required to continue sampling (most of the concentrations have decreased in groundwater, except DCE which has increased as expected as TCE breaks down). And if we need to continue monitoring, at what concentrations of groundwater would be appropriate to try to go for closure of the site?

Concentrations of TCE have significantly increased in the vapor samples. Do you suggest any further vapor sampling? If so, what type of spacing (time-wise) should we wait before conducting more sampling?

Feel free to give my cell phone a call if you wish to discuss. Thank you!

Ashley Wagner, PG
Environmental Manager
M: 262.719.5242
O: 414.410.5206
| kapurinc.com
Kapur
7711 N Port Washington Road
Milwaukee, Wisconsin 53217

kapur

A.1. Groundwater Analytical Table
Barton Products (Former Prism Manufacturing Facility)
4991 Hron Road, West Bend, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	MW-1						MW-2						MW-3						MW-4					
			Sample Date:	8/9/2018	11/29/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021	8/9/2018	11/27/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021	8/9/2018	11/27/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021	8/9/2018	11/27/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021
Metals																											
Sulfate	ug/L	250	125	NA				50.2	57.2	NA				21.7	24.2	NA				9.3	9.8	NA				14.2	14.6
Iron, Dissolved	ug/L	0.3	0.15					<56.7	<56.7					278	255					<56.7	<56.7					<56.7	<56.7
Volatile Organic Compounds (VOCs)																											
1,1,1,2-Tetrachloroethane	ug/L	70	7.0	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36
1,1,1-Trichloroethane	ug/L	200	40	<0.24	<0.24	<0.24	<0.24	<0.30	<0.30	<0.24	<0.24	<0.24	<0.24	<0.30	<0.30	<0.24	<0.24	<0.24	<0.24	<0.30	<0.30	<0.24	<0.24	<0.24	<0.24	<0.30	<0.30
1,1,2,2-Tetrachloroethane	ug/L	0.2	0.02	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38
1,1,2-Trichloroethane	ug/L	5.0	0.5	<0.55	<0.55	<0.55	<0.55	<0.34	<0.34	<0.55	<0.55	<0.55	<0.55	<0.34	<0.34	<0.55	<0.55	<0.55	<0.55	<0.34	<0.34	<0.55	<0.55	<0.55	<0.55	<0.34	<0.34
1,1-Dichloroethane	ug/L	850	85	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30
1,1-Dichloroethene	ug/L	7.0	0.7	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58
1,1-Dichloropropene	ug/L			<0.54	<0.54	<0.54	<0.54	<0.41	<0.41	<0.54	<0.54	<0.54	<0.54	<0.41	<0.41	<0.54	<0.54	<0.54	<0.54	<0.41	<0.41	<0.54	<0.54	<0.54	<0.54	<0.41	<0.41
1,2,3-Trichlorobenzene	ug/L			<0.63	<0.63	<0.63	<2.2	<1.0	<1.0	<0.63	<0.63	<0.63	<2.2	<1.0	<1.0	<0.63	<0.63	<0.63	<2.2	<1.0	<1.0	<0.63	<0.63	<0.63	<2.2	<1.0	<1.0
1,2,3-Trichloropropane	ug/L	60	12	<0.59	<0.59	<0.59	<0.59	<0.56	<0.56	<0.59	<0.59	<0.59	<0.59	<0.56	<0.56	<0.59	<0.59	<0.59	<0.59	<0.56	<0.56	<0.59	<0.59	<0.59	<0.59	<0.56	<0.56
1,2,4-Trichlorobenzene	ug/L	70	14	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	ug/L	480	96	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45
1,2-Dibromo-3-chloropropane	ug/L	0.2	0.02	<1.8	<1.8	<1.8	<1.8	<2.4	<2.4	<1.8	<1.8	<1.8	<1.8	<2.4	<2.4	<1.8	<1.8	<1.8	<1.8	<2.4	<2.4	<1.8	<1.8	<1.8	<1.8	<2.4	<2.4
1,2-Dibromoethane (EDB)	ug/L	0.05	0.005	<0.83	<0.83	<0.83	<0.83	<0.31	<0.31	<0.83	<0.83	<0.83	<0.83	<0.31	<0.31	<0.83	<0.83	<0.83	<0.83	<0.31	<0.31	<0.83	<0.83	<0.83	<0.83	<0.31	<0.31
1,2-Dichlorobenzene	ug/L	600	60	<0.71	<0.71	<0.71	<0.71	<0.33	<0.33	<0.71	<0.71	<0.71	<0.71	<0.33	<0.33	<0.71	<0.71	<0.71	<0.71	<0.33	<0.33	<0.71	<0.71	<0.71	<0.71	<0.33	<0.33
1,2-Dichloroethane	ug/L	5.0	0.5	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29
1,2-Dichloropropane	ug/L	5.0	0.5	<0.28	<0.28	<0.28	<0.28	<0.45	<0.45	<0.28	<0.28	<0.28	<0.28	<0.45	<0.45	<0.28	<0.28	<0.28	<0.28	<0.45	<0.45	<0.28	<0.28	<0.28	<0.28	<0.45	<0.45
1,3,5-Trimethylbenzene	ug/L	480	96	<0.87	<0.87	<0.87	<0.87	<0.36	<0.36	<0.87	<0.87	<0.87	<0.87	<0.36	<0.36	<0.87	<0.87	<0.87	<0.87	<0.36	<0.36	<0.87	<0.87	<0.87	<0.87	<0.36	<0.36
1,3-Dichlorobenzene	ug/L	600	120	<0.63	<0.63	<0.63	<0.63	<0.35	<0.35	<0.63	<0.63	<0.63	<0.63	<0.35	<0.35	<0.63	<0.63	<0.63	<0.63	<0.35	<0.35	<0.63	<0.63	<0.63	<0.63	<0.35	<0.35
1,3-Dichloropropane	ug/L			<0.83	<0.83	<0.83	<0.83	<0.30	<0.30	<0.83	<0.83	<0.83	<0.83	<0.30	<0.30	<0.83	<0.83	<0.83	<0.83	<0.30	<0.30	<0.83	<0.83	<0.83	<0.83	<0.30	<0.30
1,4-Dichlorobenzene	ug/L	75	15	<0.94	<0.94	<0.94	<0.94	<0.89	<0.89	<0.94	<0.94	<0.94	<0.94	<0.89	<0.89	<0.94	<0.94	<0.94	<0.94	<0.89	<0.89	<0.94	<0.94	<0.94	<0.94	<0.89	<0.89
2,2-Dichloropropane	ug/L			<2.3	<2.3	<2.3	<2.3	<4.2	<4.2	<2.3	<2.3	<2.3	<2.3	<4.2	<4.2	<2.3	<2.3	<2.3	<2.3	<4.2	<4.2	<2.3	<2.3	<2.3	<2.3	<4.2	<4.2
2-Chlorotoluene	ug/L			<0.93	<0.93	<0.93	<0.93	<0.89	<0.89	<0.93	<0.93	<0.93	<0.93	<0.89	<0.89	<0.93	<0.93	<0.93	<0.93	<0.89	<0.89	<0.93	<0.93	<0.93	<0.93	<0.89	<0.89
4-Chlorotoluene	ug/L			<0.76	<0.76	<0.76	<0.76	<0.89	<0.89	<0.76	<0.76	<0.76	<0.76	<0.89	<0.89	<0.76	<0.76	<0.76	<0.76	<0.89	<0.89	<0.76	<0.76	<0.76	<0.76	<0.89	<0.89
Benzene	ug/L	5.0	0.5	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30
Bromobenzene	ug/L			<0.24	<0.24	<0.24	<0.24	<0.36	<0.36	<0.24	<0.24	<0.24	<0.24	<0.36	<0.36	<0.24	<0.24	<0.24	<0.24	<0.36	<0.36	<0.24	<0.24	<0.24	<0.24	<0.36	<0.36
Bromochloromethane	ug/L			<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane	ug/L	0.6	0.06	<0.36	<0.36	<0.36	<0.36	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.42	<0.42	<0.36	<0.36	<0.36	<0.36	<0.42	<0.42
Bromoform	ug/L	4.4	0.44	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8
Bromomethane	ug/L	10	1.0	<0.97	<0.97	<0.97	<0.97	<1.2	<1.2	<0.97	<0.97	<0.97	<0.97	<1.2	<1.2	<0.97	<0.97	<0.97	<0.97	<1.2	<1.2	<0.97	<0.97	<0.97	<0.97	<1.2	<1.2
Carbon tetrachloride	ug/L	5.0	0.5	<0.17	<0.17	<0.17	<1.6	<0.37	<0.37	<0.17	<0.17	<0.17	<1.6	<0.37	<0.37	<0.17	<0.17	<0.17	<1.6	<0.37	<0.37	<0.17	<0.17	<0.17	<1.6	<0.37	<0.37
Chlorobenzene	ug/L	100	20	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86
Chloroethane	ug/L	400	80	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4
Chloroform	ug/L	6.0	0.6	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2
Chloromethane	ug/L	30	3.0	<2.2	<2.2	<2.2	<2.2	<1.6	<1.6	<2.2	<2.2	<2.2	<2.2	<1.6	<1.6	<2.2	<2.2	<2.2	<2.2	<1.6	<1.6	<2.2	<2.2	<2.2	<2.2	<1.6	<1.6
Dibromochloromethane	ug/L	60	6.0	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
Dibromomethane	ug/L			<0.94	<0.94	<0.94	<0.94	<0.99	<0.99	<0.94	<0.94	<0.94	<0.94	<0.99	<0.99	<0.94	<0.94	<0.94	<0.94	<0.99	<0.99	<0.94	<0.94	<0.94	<0.94	<0.99	<0.99
Dichlorodifluoromethane	ug/L	1,000	200	<0.50	<0.50	<0.50	<0.50	<0.46	<0.46	<0.50	<0.50	<0.50	<0.50	<0.46	<0.46	<0.50	<0.50	<0.50	<0.50	<0.46	<0.46	<0.50	<0.50	<0.50	<0.50	<0.46	<0.46
Diisopropyl ether	ug/L			<1.9	<1.9	<1.9	<1.9	<1.1	<1.1	<1.9	<1.9	<1.9	<1.9	<1.1	<1.1	<1.9	<1.9	<1.9	<1.9	<1.1	<1.1	<1.9	<1.9	<1.9	<1.9	<1.1	<1.1
Ethylbenzene	ug/L	700	140	<0.22	<0.22	<0.22	<0.32	<0.33	<0.33	<0.22	<0.22	<0.22	<0.32	<0.33	<0.33	<0.22	<0.22	<0.22	<0.32	<0.33	<0.33	<0.22	<0.22	<0.22	<0.32	<0.33	<0.33
Hexachloro-1,3-butadiene	ug/L			<1.2	<1.2	<1.2	<1.5	<2.7	<2.7	<1.2	<1.2	<1.2	<1.5	<2.7	<2.7	<1.2	<1.2	<1.2	<1.5	<2.7	<2.7	<1.2	<1.2	<1.2	<1.5	<2.7	<2.7
Isopropylbenzene (Cumene)	ug/L			<0.39	<0.39	<0.39	<1.7	<1.0	<1.0	<0.39	<0.39	<0.39	<1.7	<1.0	<1.0	<0.39	<0.39	<0.39	<1.7	<1.0	<1.0	<0.39	<0.39	<0.39	<1.7	<1.0	<1.0
Methyl-tert-butyl ether	ug/L	60	12	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1
Methylene Chloride	ug/L	5.0	0.5	<0.58	<0.58	<0.58	<0.58	<0.32	<0.32	<0.58	<0.58	<0.58	<0.58	<0.32	<0.32	<0.58	<0.58	<0.58	<0.58	<0.32	<0.32	<0.58	<0.58	<0.58	<0.58	<0.32	<0.32
Naphthalene	ug/L	100	10	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1
Styrene	ug/L	100	10	<0.47	<0.47	<0.47	<3.0	<0.36	<0.36	<0.47	<0.47	<0.47	<3.0	<0.36	<0.36	0.47 J	<0.47	<0.47	<3.0	<0.36	<0.36	<0.47	<0.47	<0.47	<3.0	<0.36	<0.36
Tetrachloroethene	ug/L	5.0	0.5	<0.33	<0.33	<0.33	<0.33	<0.41	<0.41	<0.33	<0.33	<0.33	<0.33	<0.41	<0.41	<0.33	<0.33	<0.33	<0.33	<0.41	<0.41	<0.33	<0.33	<0.33	<0.33	<0.41	<0.41
Toluene	ug/L	800	160	<0.17	<0.17	<0.17	<0.27	<0.29	<0.29	<0.17	<0.17	<0.17	<0.27	<0.29	<0.29	<0.17	<0.17	<0.17	<0.27	<0.29	<0.29	<0.17	<0.17	<0.17	<0.27	<0.29	<0.29
Trichloroethene	ug/L	5.0	0.5	<0.26	<0.26	<0.26	<0.26	<0.32	<0.32	<0.26	<0.26	<0.26	<0.26	<0.32	<0.32	<0.26	<0.26	<0.26	<0.26	<0.32	<0.32	<0.26	<0.26	<0.26	<0.26	<0.32	<0.32
Trichlorofluoromethane	ug/L	3,490	698	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42
Vinyl chloride	ug/L	0.2	0.02	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	ug/L	70	7.0	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47	<0.27	<0.27	<0.27	<0.27	<0.47	<0.47
cis-1,3-Dichloropropene	ug/L	0.4	0.04	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36
m&p-Xylene	ug/L			<0.47	<0.47	<0.47	<0.47	<0.70	<0.70	<0.47	<0.47	<0.47	<0.47	<0.70	<0.70	<0.47	<0.47	<0.47	<0.47	<0.70	<0.70	<0.47	<0.47	<0.47	<0.47	<0.70	<0.70
n-Butylbenzene	ug/L			<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86
n-Propylbenzene	ug/L			<0.81	<0.81	<0.81	<0.81	<0.35	<0.35	<0.81	<0.81	<0.81	<0.81	<0.35	<0.35	<0.81	<0.81	<0.81	<0.81	<0.35	<0.35	<0.81	<0.81	<0.81	<0.81	<0.35	<0.35
o-Xylene	ug/L			<0.26	<0.26	<0.26	<0.26	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.35	<0.35	<0.26	<0.26	<0.26	<0.26	<0.35	<0.35
p-Isopropyltoluene	ug/L			<0.80	<0.80	<0.80	<0.80	<1.0	<1.0	<0.80	<0.80	<0.80	<0.80	<1.0	<1.0	<0.80	<0.80	<0.80	<0.80	<1.0	<1.0	<0.80	<0.80	<0.80	<0.80	<1.0	<1.0
sec-Butylbenzene	ug/L			<0.85	<0.85	<0.85	<0.85	<0.42	<0.42	<0.85	<0.85	<0.85	<0.85	<0.42	<0.42	<0.85	<0.85	<0.85	<0.85	<0.42	<0.42	<0.85	<0.85	<0.85	<0.85	<0.42	<0.42
tert-Butylbenzene	ug/L			<0.30	<0.30	<0.30	<0.30	<0.59	<0.59	<0.30	<0.30	<0.30	<0.30	<0.59	<0.59	<0.30	<0.30	<0.30	<0.30	<0.59	<0.59	<0.30	<0.30	<0.30	<0.30	<0.59	<0.59
trans-1,2-Dichloroethene	ug/L	100	20	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53
trans-1,3-Dichloropropene	ug/L	0.4	0.04	<4.4	<4.4	<4.4	<4.4	<3.5	<3.5	<4.4	<4.4	<4.4	<4.4	<3.5	<3.5	<4.4	<4.4	<4.4	<4.4	<3.5	<3.5	<4.4	<4.4	<4.4	<4.4	<3.5	<3.5
Acetone	ug/L	9,000	1,800	NA						NA						NA						NA					
2-Butanone	ug/L	4,000	800																								
4-methyl-2-pentanone	ug/L	500	50																								
Tetrahydrofuran	ug/L	50	10																								

NOTES:

Only analytes with a detection in at least one sample are shown

* = sample by previous consultant (Stantec)

NA = Not Analyzed

NR = Not Reported/Below Detection Limits

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

TW-4 was reported damaged and was replaced in February 2020 with TW-4R

TW-4RR was reported damaged and was replaced in May 2021 with TW-4RR

^ = sample contained significant sediment that is believed to have produced a false positive or elevated concentrations compared to that what is actually present.

kapur

A.1. Groundwater Analytical Table
Barton Products (Former Prism Manufacturing Facility)
4991 Hron Road, West Bend, Wisconsin

Parameter	Units	ch. NR 140 GW Quality Enforcement Standards	ch. NR 140 GW Quality Preventive Action Limits	P-1						TW-4			TW-4R	TW-4RR		TW-8						
Sample Date:				8/9/2018	11/27/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021	6/12/2017*	8/9/2018	11/27/2018	3/4/2020	6/9/2021	9/23/2021	6/12/2017*	8/9/2018	11/27/2018	3/8/2019	3/4/2020	6/9/2021	9/23/2021
Metals																						
Sulfate	ug/L	**250**	**125**	NA				18.2	17.6	NA			NA	**421**	**280**	NA					16.1	18.3
Iron, Dissolved	ug/L	**0.3**	**0.15**					<56.7	<56.7					<56.7	<56.7						NA	NA
Volatile Organic Compounds (VOCs)																						
1,1,1,2-Tetrachloroethane	ug/L	**70**	**7.0**	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36	NA	<0.27	<1.3	<2.7	<1.8	<17.8	NA	<0.27	<0.27	<0.27	<0.27	<0.36	<0.36
1,1,1-Trichloroethane	ug/L	**200**	**40**	<0.24	<0.24	<0.24	<0.24	<0.30	<0.30	<50	<0.24	<1.2	<2.4	25.7	**67.6**	<0.50	<0.24	<0.24	<0.24	<0.24	<0.30	0.51 J
1,1,2,2-Tetrachloroethane	ug/L	**0.2**	**0.02**	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38	NA	<0.28	<1.4	<2.8	<1.9	<18.9	NA	<0.28	<0.28	<0.28	<0.28	<0.38	<0.38
1,1,2-Trichloroethane	ug/L	**5.0**	**0.5**	<0.55	<0.55	<0.55	<0.55	<0.34	<0.34		<0.55	<2.8	<5.5	<1.7	<17.2		<0.55	<0.55	<0.55	<0.55	<0.34	<0.34
1,1-Dichloroethane	ug/L	**850**	**85**	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30	**100 J**	<0.27	<1.4	31.5	21.9	34.7 J	<0.30	<0.27	<0.27	<0.27	<0.27	<0.30	<0.30
1,1-Dichloroethene	ug/L	**7.0**	**0.7**	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58	<40	**1.6**	<1.2	**5.4**	<2.9	<29.1	<0.40	<0.24	<0.24	<0.24	<0.24	<0.58	<0.58
1,1-Dichloropropene	ug/L			<0.54	<0.54	<0.54	<0.54	<0.41	<0.41		<0.54	<2.7	<5.4	<2.1	<20.5		<0.54	<0.54	<0.54	<0.54	<0.41	<0.41
1,2,3-Trichlorobenzene	ug/L			<0.63	<0.63	<0.63	<2.2	<1.0	<1.0	NA	<0.63	<3.1	<22.1	<5.1	<50.9	NA	<0.63	<0.63	<0.63	<2.2	<1.0	<1.0
1,2,3-Trichloropropane	ug/L	**60**	**12**	<0.59	<0.59	<0.59	<0.59	<0.56	<0.56		<0.59	<3.0	<5.9	<2.8	<27.8		<0.59	<0.59	<0.59	<0.59	<0.56	<0.56
1,2,4-Trichlorobenzene	ug/L	**70**	**14**	<0.95	<0.95	<0.95	<0.95	<0.95	<0.95		<0.95	<4.8	<9.5	<4.8	<47.5		<0.95	<0.95	<0.95	<0.95	<0.95	<0.95
1,2,4-Trimethylbenzene	ug/L	**480**	**96**	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45	<40	<0.84	<4.2	<8.4	<2.2	<22.4	0.53 J	<0.84	<0.84	<0.84	<0.84	<0.45	<0.45
1,2-Dibromo-3-chloropropane	ug/L	**0.2**	**0.02**	<1.8	<1.8	<1.8	<1.8	<2.4	<2.4		<1.8	<8.8	<17.6	<11.8	<118		<1.8	<1.8	<1.8	<1.8	<2.4	<2.4
1,2-Dibromoethane (EDB)	ug/L	**0.05**	**0.005**	<0.83	<0.83	<0.83	<0.83	<0.31	<0.31		<0.83	<4.1	<8.3	<1.5	<15.5		<0.83	<0.83	<0.83	<0.83	<0.31	<0.31
1,2-Dichlorobenzene	ug/L	**600**	**60**	<0.71	<0.71	<0.71	<0.71	<0.33	<0.33		<0.71	<3.5	<7.1	<1.6	<16.3		<0.71	<0.71	<0.71	<0.71	<0.33	<0.33
1,2-Dichloroethane	ug/L	**5.0**	**0.5**	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29		<0.28	<1.4	<2.8	<1.5	<14.6		<0.28	<0.28	<0.28	<0.28	<0.29	<0.29
1,2-Dichloropropane	ug/L	**5.0**	**0.5**	<0.28	<0.28	<0.28	<0.28	<0.45	<0.45		<0.28	<1.4	<2.8	<2.2	<22.4		<0.28	<0.28	<0.28	<0.28	<0.45	<0.45
1,3,5-Trimethylbenzene	ug/L	**480**	**96**	<0.87	<0.87	<0.87	<0.87	<0.36	<0.36		<0.87	<4.4	<8.7	<1.8	<17.9		<0.87	<0.87	<0.87	<0.87	<0.36	<0.36
1,3-Dichlorobenzene	ug/L	**600**	**120**	<0.63	<0.63	<0.63	<0.63	<0.35	<0.35		<0.63	<3.1	<6.3	<1.8	<17.6		<0.63	<0.63	<0.63	<0.63	<0.35	<0.35
1,3-Dichloropropane	ug/L			<0.83	<0.83	<0.83	<0.83	<0.30	<0.30		<0.83	<4.1	<8.3	<1.5	<15.2		<0.83	<0.83	<0.83	<0.83	<0.30	<0.30
1,4-Dichlorobenzene	ug/L	**75**	**15**	<0.94	<0.94	<0.94	<0.94	<0.89	<0.89		<0.94	<4.7	<9.4	<4.5	<44.6		<0.94	<0.94	<0.94	<0.94	<0.89	<0.89
2,2-Dichloropropane	ug/L			<2.3	<2.3	<2.3	<2.3	<4.2	<4.2		<2.3	<11.3	<22.7	<20.9	<209		<2.3	<2.3	<2.3	<2.3	<4.2	<4.2
2-Chlorotoluene	ug/L			<0.93	<0.93	<0.93	<0.93	<0.89	<0.89		<0.93	<4.6	<9.3	<4.4	<44.5		<0.93	<0.93	<0.93	<0.93	<0.89	<0.89
4-Chlorotoluene	ug/L			<0.76	<0.76	<0.76	<0.76	<0.89	<0.89		<0.76	<3.8	<7.6	<4.5	<44.7		<0.76	<0.76	<0.76	<0.76	<0.89	<0.89
Benzene	ug/L	**5.0**	**0.5**	<0.25	<0.25	<0.25	<0.25	<0.30	<0.30		<0.25	<1.2	<2.5	<1.5	<14.8		<0.25	<0.25	<0.25	<0.25	<0.30	<0.30
Bromobenzene	ug/L			<0.24	<0.24	<0.24	<0.24	<0.36	<0.36		<0.24	<1.2	<2.4	<1.8	<18.0		<0.24	<0.24	<0.24	<0.24	<0.36	<0.36
Bromochloromethane	ug/L			<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		<0.36	<1.8	<3.6	<1.8	<17.9		<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromodichloromethane	ug/L	**0.6**	**0.06**	<0.36	<0.36	<0.36	<0.36	<0.42	<0.42		<0.36	<1.8	<3.6	<2.1	<20.8		<0.36	<0.36	<0.36	<0.36	<0.42	<0.42
Bromoform	ug/L	**4.4**	**0.44**	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8	NA	<4.0	<19.9	<39.7	<19.0	<190	NA	<4.0	<4.0	<4.0	<4.0	<3.8	<3.8
Bromomethane	ug/L	**10**	**1.0**	<0.97	<0.97	<0.97	<0.97	<1.2	<1.2		<0.97	<4.9	<9.7	<6.0	<59.6		<0.97	<0.97	<0.97	<0.97	<1.2	<1.2
Carbon tetrachloride	ug/L	**5.0**	**0.5**	<0.17	<0.17	<0.17	<1.6	<0.37	<0.37		<0.17	<0.83	<16.4	<1.8	<18.5		<0.17	<0.17	<0.17	<1.6	<0.37	<0.37
Chlorobenzene	ug/L	**100**	**20**	<0.71	<0.71	<0.71	<0.71	<0.86	<0.86		<0.71	<3.6	<7.1	<4.3	<42.8		<0.71	<0.71	<0.71	<0.71	<0.86	<0.86
Chloroethane	ug/L	**400**	**80**	<1.3	<1.3	<1.3	<1.3	<1.4	<1.4		<1.3	<6.7	<13.4	<6.9	<69.0		<1.3	<1.3	<1.3	<1.3	<1.4	<1.4
Chloroform	ug/L	**6.0**	**0.6**	<1.3	<1.3	<1.3	<1.3	<1.2	<1.2		<1.3	<6.4	<12.7	<5.9	<59.1		<1.3	<1.3	<1.3	<1.3	<1.2	<1.2
Chloromethane	ug/L	**30**	**3.0**	<2.2	<2.2	<2.2	<2.2	<1.6	<1.6		<2.2	<10.9	<21.9	<8.2	<81.8		<2.2	<2.2	<2.2	<2.2	<1.6	<1.6
Dibromochloromethane	ug/L	**60**	**6.0**	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6		<2.6	<13.0	<26.0	<13.2	<132		<2.6	<2.6	<2.6	<2.6	<2.6	<2.6
Dibromomethane	ug/L			<0.94	<0.94	<0.94	<0.94	<0.99	<0.99		<0.94	<4.7	<9.4	<5.0	<49.5		<0.94	<0.94	<0.94	<0.94	<0.99	<0.99
Dichlorodifluoromethane	ug/L	**1,000**	**200**	<0.50	<0.50	<0.50	<0.50	<0.46	<0.46		<0.50	<2.5	<5.0	<2.3	<22.8		<0.50	<0.50	<0.50	<0.50	<0.46	<0.46
Diisopropyl ether	ug/L			<1.9	<1.9	<1.9	<1.9	<1.1	<1.1		<1.9	<9.4	<18.9	<5.5	<55.0		<1.9	<1.9	<1.9	<1.9	<1.1	<1.1
Ethylbenzene	ug/L	**700**	**140**	<0.22	<0.22	<0.22	<0.32	<0.33	<0.33		<0.22	<1.1	<3.2	<1.6	<16.3		<0.22	<0.22	<0.22	<0.32	<0.33	<0.33
Hexachloro-1,3-butadiene	ug/L			<1.2	<1.2	<1.2	<1.5	<2.7	<2.7		<1.2	<5.9	<14.6	<13.7	<137		<1.2	<1.2	<1.2	<1.5	<2.7	<2.7
Isopropylbenzene (Cumene)	ug/L			<0.39	<0.39	<0.39	<1.7	<1.0	<1.0		<0.39	<2.0	<16.9	<5.0	<50.0		<0.39	<0.39	<0.39	<1.7	<1.0	<1.0
Methyl-tert-butyl ether	ug/L	**60**	**12**	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1		<1.2	<6.2	<12.5	<5.6	<56.5		<1.2	<1.2	<1.2	<1.2	<1.1	<1.1
Methylene Chloride	ug/L	**5.0**	**0.5**	<0.58	<0.58	<0.58	<0.58	<0.32	<0.32		<0.58	<2.9	<5.8	<1.6	<16.0		<0.58	<0.58	<0.58	<0.58	<0.32	<0.32
Naphthalene	ug/L	**100**	**10**	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1	<70	<1.2	<5.9	<11.8	<5.6	<56.5	<0.70	<1.2	<1.2	<1.2	<1.2	<1.1	<1.1
Styrene	ug/L	**100**	**10**	<0.47	<0.47	<0.47	<3.0	<0.36	<0.36	NA	<0.47	<2.3	<30.1	<1.8	<17.8	NA	<0.47	<0.47	<0.47	<3.0	<0.36	<0.36
Tetrachloroethene	ug/L	**5.0**	**0.5**	<0.33	<0.33	<0.33	<0.33	<0.41	<0.41		0.36 J	<1.6	<3.3	<2.0	<20.4		<0.33	<0.33	<0.33	<0.33	<0.41	<0.41
Toluene	ug/L	**800**	**160**	0.21 J	<0.17	<0.17	<0.27	<0.29	<0.29	<30	0.29 J	<0.86	<2.7	<1.4	<14.4	<0.3	<0.17	0.21 J	<0.17	<0.27	<0.29	<0.29
Trichloroethene	ug/L	**5.0**	**0.5**	<0.26	<0.26	<0.26	<0.26	<0.32	<0.32	**7,600**	**3,180**	**118**	**81.5**	**1,170**	**490**	**3.5**	<0.26	<0.26	<0.26	**2.9**	**2.0**	**8.2**
Trichlorofluoromethane	ug/L	**3,490**	**698**	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42	NA	<0.21	<1.1	<2.1	<2.1	<20.9	NA	<0.21	<0.21	<0.21	<0.21	<0.42	<0.42
Vinyl chloride	ug/L	**0.2**	**0.02**	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<19	**0.76**	<0.87	**2.4**	**1.9**	<8.7	<0.19	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	ug/L	**70**	**7.0**	<0.27	<0.27	1.4	<0.27	<0.47	<0.47	**17,000**	**4,930**	**759**	**5,750**	**4,200**	**6,170**	2.9	<0.27	<0.27	<0.27	1.1	1.5	5.4
cis-1,3-Dichloropropene	ug/L	**0.4**	**0.04**	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36	NA	<3.6	<18.1	<36.3	<1.8	<17.9	NA	<3.6	<3.6	<3.6	<3.6	<0.36	<0.36
m&p-Xylene	ug/L			<0.47	<0.47	<0.47	<0.47	<0.70	<0.70	<50	<0.47	<2.3	<4.7	<3.5	<35.0	0.55 J	<0.47	<0.47	<0.47	<0.47	<0.70	<0.70
n-Butylbenzene	ug/L			<0.71	<0.71	<0.71	<0.71	<0.86	<0.86		<0.71	<3.5	<7.1	<4.3	<42.9		<0.71	<0.71	<0.71	<0.71	<0.86	<0.86
n-Propylbenzene	ug/L			<0.81	<0.81	<0.81	<0.81	<0.35	<0.35		<0.81	<4.1	<8.1	1.9 J	<17.3		<0.81	<0.81	<0.81	<0.81	<0.35	<0.35
o-Xylene	ug/L			<0.26	<0.26	<0.26	<0.26	<0.35	<0.35		<0.26	<1.3	<2.6	<1.7	<17.4		<0.26	<0.26	<0.26	<0.26	<0.35	<0.35
p-Isopropyltoluene	ug/L			<0.80	<0.80	<0.80	<0.80	<1.0	<1.0		<0.80	<4.0	<8.0	<5.2	<52.2		<0.80	<0.80	<0.80	<0.80	<1.0	<1.0
sec-Butylbenzene	ug/L			<0.85	<0.85	<0.85	<0.85	<0.42	<0.42		<0.85	<4.2	<8.5	<2.1	<21.2		<0.85	<0.85	<0.85	<0.85	<0.42	<0.42
tert-Butylbenzene	ug/L			<0.30	<0.30	<0.30	<0.30	<0.59	<0.59		<0.30	<1.5	<3.0	<2.9	<29.3		<0.30	<0.30	<0.30	<0.30	<0.59	<0.59
trans-1,2-Dichloroethene	ug/L	**100**	**20**	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53	<60	5.5	<5.5	16.1 J	**423**	**34.9 J**	<0.6	<1.1	<1.1	<1.1	<1.1	<0.53	<0.53
trans-1,3-Dichloropropene	ug/L	**0.4**	**0.04**	<4.4	<4.4	<4.4	<4.4	<3.5	<3.5	NA	<4.4	<21.9	<43.7	<17.3	<173		<4.4	<4.4	<4.4	<4.4	<3.5	<3.5
Acetone	ug/L	**9,000**	**1,800**	NA						<900	NA			NA		10 J	NA					
2-Butanone	ug/L	**4,000**	**800**							<400						<4.0						
4-methyl-2-pentanone	ug/L	**500**	**50**							<600						<6.0						
Tetrahydrofuran	ug/L	**50**	**10**							**300 JB**						<3.0						

NOTES:

Only analytes with a detection in at least one sample are shown

* = sample by previous consultant (Stantec)

NA = Not Analyzed

NR = Not Reported/Below Detection Limits

Concentrations equal to or exceeding the WI NR 140 GW Quality Enforcement Standards are **bold faced**

Concentrations equal to or exceeding the WI NR 140 GW Quality Preventive Action Limits are **bold faced**

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

TW-4 was reported damaged and was replaced in February 2020 with TW-4R

TW-4RR was reported damaged and was replaced in May 2021 with TW-4RR

^ = sample contained significant sediment that is believed to have produced a false positive or elevated concentrations com

A.4: Vapor Analytical Results (Sub-Slab)
Former Barton Products/PRISM MFG
4991 Hron Road, West Bend, Wisconsin

Sub-Slab Vapor Risk Screening Levels							
Parameter	**Large Commercial/Industrial VRSL - SubSlab (ug/m3)**	**Small Commercial/Industrial VRSL - SubSlab (ug/m3)**	**VP-2**		**VP-3**		**VP**
Date Sampled			**4/4/2019**	**9/23/2021**	**4/4/2019**	**9/23/2021**	**4/4/2019**
Attenuation Factor	**0.01**	**0.03**					
1,1,1-Trichloroethane	2,200,000	730,000	<0.61	11.5	2820	48300	<0.52
1,1,2,2-Tetrachloroethane			<0.57	<0.50	<0.51	<0.54	<0.49
1,1,2-Trichloroethane			<0.49	<0.26	<0.44	<0.28	<0.42
1,1,2-Trichlorotrifluoroethane			<1.1	0.73 J	41.8	131	<0.95
1,1-Dichloroethane	7,700	2,600	<0.44	1.0 J	83.1	1230	<0.38
1,1-Dichloroethene	88,000	29,000	<0.54	0.30 J	195	2030	<0.46
1,2,4-Trichlorobenzene			<7.3	<6.5	<6.5	<7.0	<6.2
1,2,4-Trimethylbenzene	26,000	8,700	<0.89	5.1	<0.79	5.8	<0.76
1,2-Dibromoethane (EDB)			<0.72	<0.40	<0.64	<0.43	<0.61
1,2-Dichlorobenzene			<0.98	<0.54	<0.87	<0.58	<0.84
1,2-Dichloroethane	470	160	<0.29	2.5	<0.26	<0.28	<0.25
1,2-Dichloropropane			<0.45	<0.36	<0.40	<0.39	<0.39
1,3,5-Trimethylbenzene	26,000	8,700	<0.78	2.1	<0.70	1.8	<0.67
1,3-Butadiene			<0.25	<0.16	<0.22	<0.17	<0.22
1,3-Dichlorobenzene			<1.1	<0.68	<1.0	<0.73	<0.98
1,4-Dichlorobenzene			<2.0	<1.2	<1.8	1.5 J	<1.7
2-Butanone (MEK)			<0.72	18.2	14.5	14.9	5.0
2-Hexanone			<1.5	2.0 J	2.4 J	2.1 J	<1.3
2-Propanol			14.2	215	4.7	14.4	5.7
4-Ethyltoluene			<1.1	2.7 J	<1.0	2.3 J	<0.96
4-Methyl-2-pentanone (MIBK)			<1.0	44.7	<0.91	1.2 J	<0.87
Acetone			19.7	162	28.9	60.9	22.5
Benzene	1,600	530	1.1	4.9	1.5	5.7	1.5
Benzyl chloride			<2.4	<1.2	<2.1	<1.3	<2.0
Bromodichloromethane			<0.72	<0.32	<0.64	<0.34	<0.61
Bromoform			<2.8	<2.2	<2.5	<2.3	<2.4
Bromomethane			<0.44	0.43 J	<0.40	<0.22	<0.38
Carbon disulfide			<0.43	4.9	<0.38	0.79 J	<0.37
Carbon tetrachloride	2,000	670	0.90 J	<0.38	<0.75	<0.40	<0.72
Chlorobenzene			<0.54	<0.21	<0.48	<0.22	<0.46
Chloroethane			<0.51	<0.30	<0.46	<0.32	<0.44
Chloroform	530	180	<0.38	1.2	0.72 J	9.0	<0.33
Chloromethane	39,000	13,000	0.76 J	3.5	0.70 J	<0.12	1.1
Cyclohexane			1.0 J	47.2	1.4 J	6.6	1.3 J
Dibromochloromethane			<1.4	<0.69	<1.3	<0.74	<1.2
Dichlorodifluoromethane	44,000	15,000	3.0	3.4	2.9	2.3	3.3
Dichlorotetrafluoroethane			<0.86	<0.27	<0.76	<0.29	<0.73
Ethanol			14.7	1010	18.1	37.2	20.7
Ethyl acetate			<0.37	570	<0.33	0.96 J	<0.32
Ethylbenzene	4,900	1,600	<0.60	15.8	<0.53	3.8	0.52 J
Hexachloro-1,3-butadiene			<3.9	<1.6	<3.4	<1.8	<3.3
Methyl-tert-butyl ether	47,000	16,000	<1.3	<0.17	<1.2	<0.18	<1.1
Methylene Chloride	260,000	87,000	2.6 J	21.2	15.7	<0.85	3.2 J
Naphthalene	360	120	<2.6	<2.9	<2.3	<3.1	4.8
Propylene			<0.28	<0.17	17.9	29	<0.24
Styrene			<0.67	9.0	<0.60	0.76 J	<0.58
Tetrachloroethene	18,000	6,000	<0.62	779	5.6	73.5	0.75 J
Tetrahydrofuran			<0.51	<0.24	<0.46	<0.26	<0.44
Toluene	2,200,000	730,000	3.5	150	3.8	25.7	4.8
Trichloroethene	880	290	1.2	143	47.2	**1390**	11.1
Trichlorofluoromethane			4.0	1.7	4.7	1.8	5.2
Vinyl acetate			<0.53	10.4	<0.47	<0.30	<0.45
Vinyl chloride	2,800	930	<0.25	<0.12	<0.22	<0.12	<0.21
cis-1,2-Dichloroethene			<0.43	4.3	10.4	13.4	0.57 J
cis-1,3-Dichloropropene			<0.60	<0.34	<0.53	<0.37	<0.51
m&p-Xylene	44,000	15,000	1.7 J	58.1	1.9 J	6.0	2.0 J
n-Heptane			<0.74	8.3	<0.66	10.2	<0.64
n-Hexane			2.6	16.4	5.2	11.7	3.7
o-Xylene	44,000	15,000	<0.67	26.4	0.62 J	2.6	<0.58
trans-1,2-Dichloroethene			<0.56	<0.23	0.94 J	7.1	<0.48
trans-1,3-Dichloropropene			<0.86	<0.73	<0.77	<0.78	<0.74

NOTES:

All results are in micrograms per cubic meter (µg/m^3) unless noted otherwise
Concentrations exceeding the Small Commercial/Industrial Vapor Risk Screening Levels Vapor Risk Screening Levels are *italicized*
Concentrations exceeding the Large Commercial/Industrial Vapor Risk Screening Levels Vapor Risk Screening Levels are in **bold**
J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
**Please Note: Vapor point VP-1 could not be sampled due the well being frozen or obstructed/compromised*

-4
9/23/2021
273
<5.5
<2.9
24.9
8.2 J
<2.1
<72.7
6.3 J
<4.5
<6.0
<2.9
<4.0
<4.3
<1.8
<7.6
<13.1
21.0 J
<6.6
113
<7.0
<4.8
126
2.9 J
<13.3
<3.5
<24.1
<2.2
2.6 J
<4.2
<2.3
<3.3
<2.7
<1.3
7.3 J
<7.7
3.5 J
<3.0
88.5
<2.0
8.8 J
<18.3
<1.9
<8.8
<32.3
<1.9
<5.7
9.6 J
<2.7
114
964
<3.5
<3.1
<1.3
5.9 J
<3.8
23.6 J
8.8 J
19.9
8.8 J
3.1 J
<8.1