

Table 6.1 – Benzene Concentration Results

Station ID	STN-A1-01	STN-A1-02	STN-A1-03	STN-A1-04	STN-A2-01	STN-A2-02	STN-A2-03	STN-A2-04	STN-A2-05	STN-A3-01	STN-A3-02	STN-A3-03	STN-A3-04	STN-A3-05	STN-A4-01	STN-A4-02	STN-A4-03	STN-A4-04	STN-A4-05
Location (UTM)	384600	384978	384982	384363	384270	384920	384357	383863	384045	385389	385830	385480	385019	384669	386562	387327	387327	387031	386293
Sample Dates / Results (ug/m3)	4757631	4757631	4757631	4757631	4757631	4756638	4757631	4757631	4756520	4757631	4757631	4757631	4757631	4757631	4757631	4757631	4757631	4757631	4757631
12/29/2021 - 1/12/2022	1.8	1.8	2.6	3.2	3.1	3.4	6	2.6	5.4	10	1.8	2.6	3.9	4.3	1.5	1.4	2	1.2	2.4
1/12/2022- 1/26/2022	1.2	1.2	1.6	1.6	2.1	2.3	8.7	4.1	3.4	4.9	1.2	3.8	3.8	4.5	1.1	1	1.6	1.2	1.5
1/26/2022- 2/9/2022	3	3.2	Note 1	5.1	4.8	7.4	4.4	3.9	8.8	11	1.3	2.4	5.6	3.5	1.4	1.4	1.2	1.1	1.4
2/9/2022- 2/23/2022	2.1	2	2.2	3.2	2.8	2.4	5	1.5	5.5	5.5	1.2	2.1	3.8	3.2	1.2	1.2	1.3	1	2.2
2/23/2022- 3/9/2022	1.3	1.2	1.8	2	1.9	3.3	6	2.4	3.6	6.6	1.5	2.9	2.9	3	1.4	1.2	1.1	0.98	2.1
3/9/2022- 3/23/2022	1.5	1.5	2.5	2.7	3.3	3.2	4.2	2.2	3.5	5.3	1.2	1.6	3.8	3.8	1.1	1.1	1.3	1	1.7
3/23/2022- 4/6/2022	0.97	0.94	1.3	1.8	2.3	2.7	7.1	1.7	4.2	2.5	1.1	1.7	2.2	3.5	1.1	1	1.3	0.82	1.3
4/6/2022- 4/20/2022	1.3	1.4	2.1	7.2	3	3	5.8	1.8	3.8	7.7	3.5	2	2.5	3.7	1.1	0.94	1.9	1	1.8
4/20/2022 - 5/4/2022	1.2	1.1	2.1	2.3	3.1	3.7	5.2	3.6	6.3	8	1.7	1.6	2.3	3.1	1.1	1.3	2	1.2	3.1
5/4/2022 - 5/18/2022	1.6	1.4	4	2.5	3.4	9.1	5.6	4.4	8.6	11	1.2	2	5.6	2.9	1	1.4	1.3	1.1	1.4
5/18/2022 - 6/1/2022	1.3	1.6	1.7	2.4	3.2	2.2	4.9	2.7	5.9	12	0.7	1.2	2.7	1.9	0.91	1.2	1.1	0.77	1.3
6/1/2022 - 6/15/2022	1.2	1.2	2.7	1.7	2	5.2	3.5	2.4	4.6	15	2	1.9	4.7	3	1.6	1.9	2.2	1.2	3.7
6/15/2022 - 6/29/2022	3	2.8	3.7	4.7	3	5	4	2.6	4.5	18	3	2.9	6	3.9	2.2	2.5	3	1.4	4
6/29/2022 - 7/19/2022	1.4	1.2	2	5	2.5	3.6	3	2.1	3.5	7.9	1.8	1.7	3.7	2.1	2.1	2	1.9	1.3	3.6
7/19/2022 - 7/27/2022	2.8	2.3	3	8.9	2.6	5.6	2.5	1.5	4.8	12	2.6	1.8	2.4	3.8	2.3	2.3	2.2	1.5	2.1
7/27/2022 - 8/10/2022	4.3	6.8	8.1	5.7	3.7	11	4	1.8	6.4	18	6.6	8.9	14	7.8	4.9	2.8	2.4	1.6	5.4
8/10/2022 - 8/24/2022	1.6	2	3	5.5	3.4	6	7.9	2.2	4	7.2	1.9	3.3	7	4.5	1.8	1.3	1.8	1.1	2.8
8/24/2022 - 9/7/2022	3.2	4	6.2	6.5	3.7	11	11	2.6	6.5	16	3.1	4.3	13	8.4	1.9	1.8	1.7	1.4	2.7
9/7/2022 - 9/21/2022	4.5	3.6	5.7	7.1	5.9	12	7.3	4.2	10	16	2.9	3.7	7.4	9.8	2.9	2	1.5	1.4	3.9
9/21/2022 - 10/5/2022	1.4	1.8	3.8	2.5	1.5	7.6	6.4	2.7	2.9	7.6	1.9	2.7	2	3.9	1.9	1.5	2.3	2.2	3.2
10/5/2022 - 10/19/2022	2.3	1.8	3.1	6.4	1.6	4.8	3	0.84	3	14	2.8	2.6	2.6	3	1.6	1.2	1.1	0.93	1.8
10/19/2022 - 11/3/2022	2.4	2.5	4.5	4.3	4.4	8.3	3.2	1.9	6.4	16	1.3	1.5	1.5	3	1.5	1.8	1.9	0.84	1.4
11/3/2022 - 11/16/2022	1.9	2.2	3.6	10	4.7	4.1	4.9	1.8	6.2	21	1.4	1.9	2.1	4.1	1.2	1.3	2.6	0.94	1.6
11/16/2022 - 11/30/2022	2.8	2.4	4.6	9	2.5	7.1	3	1.8	4.2	15	3.1	2.9	2.7	3.1	1.8	1.8	1.6	1.2	2.6
11/30/2022 - 12/15/2022	1.5	1.7	2.3	3.2	3.2	4.4	3.9	2.5	3.7	11	1.9	2.3	3.2	4.1	0.88	1	1.3	1	1.8
12/15/2022 - 12/28/2022	1.4	1.5	3	3	2	5.2	1.9	1.5	3.5	10	5.8	2.9	3.6	2.4	2.5	2.3	1.4	1.1	2.3

Note 1: Non-recoverable sample loss due to laboratory tube loading error.

Table 6.2 - Annual Average Benzene Concentration Results

Year / Results (ug/m3)	STN-A1-01	STN-A1-02	STN-A1-03	STN-A1-04	STN-A2-01	STN-A2-02	STN-A2-03	STN-A2-04	STN-A2-05	STN-A3-01	STN-A3-02	STN-A3-03	STN-A3-04	STN-A3-05	STN-A4-01	STN-A4-02	STN-A4-03	STN-A4-04	STN-A4-05
2018	1.9	2.0	3.4	4.8	3.8	5.6	5.7	4.0	6.4	10.1	2.5	3.2	6.0	5.7	2.2	1.5	2.0	1.3	3.2
2019	1.8	1.9	3.3	4.2	4.1	5.2	5.9	3.6	8.3	11.1	2.4	2.9	4.5	4.4	1.7	1.6	2.1	1.2	3.9
2020	1.7	1.8	2.8	3.5	3.7	4.7	5.7	3.2	6.4	10.4	2.3	2.8	4.2	4.3	1.4	1.3	1.2	1.1	2.4
2021	1.7	1.8	2.9	3.8	3.5	4.7	5.3	2.7	5.4	9.8	1.9	2.4	3.4	3.3	2.3	1.8	1.4	2.1	2.2
2022	2.0	2.1	3.2	4.5	3.1	5.5	5.1	2.4	5.1	11.1	2.3	2.7	4.4	4.0	1.7	1.6	1.7	1.2	2.4

Table 6.3 - Statistical Analysis of Benzene Measurements

Year	Tech Standard Section	Variable	STN-A1-01	STN-A1-02	STN-A1-03	STN-A1-04	STN-A2-01	STN-A2-02	STN-A2-03	STN-A2-04	STN-A2-05	STN-A3-01	STN-A3-02	STN-A3-03	STN-A3-04	STN-A3-05	STN-A4-01	STN-A4-02	STN-A4-03	STN-A4-04	STN-A4-05	
2018 - 2020	61(2)4.	m	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	78	79	79	
		X	0.513428261	0.5775258	1.0713137	1.274921	1.2507207	1.5802135	1.6449457	1.1678556	1.7946222	2.2298721	0.7390638	0.9736255	1.4867489	1.4965515	0.4880571	0.3448802	0.406412	0.1632182	1.0061367	
		S^2	0.136929391	0.1326196	0.1391392	0.2727667	0.1881625	0.1250732	0.1809304	0.2715541	0.3025258	0.2106098	0.2013331	0.133609	0.1886104	0.1305881	0.1422307	0.0822357	0.2058083	0.0670826	0.2751845	
2022	62(3)4.	n	26	26	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
		X	0.620239032	0.6379588	1.0775616	1.3631557	1.0658992	1.5860097	1.5482003	0.8220914	1.5757524	2.3046794	0.6680172	0.8823921	1.3198096	1.3116796	0.4398367	0.3987666	0.5089117	0.1322976	0.8069302	
		S^2	0.178411204	0.2076342	0.2002892	0.3082632	0.1136074	0.2537994	0.1681985	0.1457748	0.1155884	0.2464207	0.2746158	0.1708943	0.3051521	0.1432677	0.1593597	0.0967433	0.0815072	0.0524206	0.1598841	
	62(3)5.	Y	0.620239032	0.6379588	1.0775616	1.3631557	1.0658992	1.5860097	1.5482003	0.8220914	1.5757524	2.3046794	0.6680172	0.8823921	1.3198096	1.3116796	0.4398367	0.3987666	0.5089117	0.1322976	0.8069302	
		X	0.513428261	0.5775258	1.0713137	1.274921	1.2507207	1.5802135	1.6449457	1.1678556	1.7946222	2.2298721	0.7390638	0.9736255	1.4867489	1.4965515	0.4880571	0.3448802	0.406412	0.1632182	1.0061367	
		S1	0.136929391	0.1326196	0.1391392	0.2727667	0.1881625	0.1250732	0.1809304	0.2715541	0.3025258	0.2106098	0.2013331	0.133609	0.1886104	0.1305881	0.1422307	0.0822357	0.2058083	0.0670826	0.2751845	
		S2	0.178411204	0.2076342	0.2002892	0.3082632	0.1136074	0.2537994	0.1681985	0.1457748	0.1155884	0.2464207	0.2746158	0.1708943	0.3051521	0.1432677	0.1593597	0.0967433	0.0815072	0.0524206	0.1598841	
		m	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	78	79	79
		n	26	26	25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
		T	2.793845068	1.3934937	0.1452732	1.3014242	-6.013592	0.1120593	-2.495891	-8.263558	-5.352032	1.3898594	-1.216004	-2.483765	-2.629125	-5.8307	-1.37335	2.5528133	3.6271898	-2.424474	-4.520709	
		62(3)6.	V	35.20861666	31.97917	31.663116	38.720108	71.768643	29.096483	45.549644	80.893904	100.71668	37.765713	34.28343	35.608346	31.522082	39.592239	38.968141	37.622251	99.000295	54.167262	74.740622
	62(3)7.	T	3.5985	3.6365	3.6365	3.57	3.44405	3.659	3.52825	3.431	3.402	3.5795	3.608	3.5985	3.6365	3.5605	3.57	3.5795	3.40345	3.4873	3.4397	
	62(3)8.	Significant Increase	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	Yes	No	No

Table 6.4 – Summary of Section 63(1) Notifications

Year	Date of s62 Calculation	Date of MECP Notification	Ambient Monitor
2022	March 15, 2023	March 15, 2023	STN-A4-03

