

Point-2: Discharge to Air

Date of Sampling	Date Results obtained	Element	Carbon dioxide	Dry gas density	Moisture content	Molecular weight of stack gases	Nitrogen Oxides	Temperature	Velocity	Volatile organic compound	Volumetric flow rate
		Unit of measure	%	kg/m ³	%	g/gmole	mg/m ³	deg C	m/s	mg/m ³	m ³ /s
		Frequency	Annual	Annual	Annual	Annual	Annual	Continuous	Annual	Annual	Continuous
		Test Results									
20/07/2016	19/08/2016	Min	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Avg	3.5	1.3	4.3	29.3	190	613	15	<0.04	2.7
		Max	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29/06/2017	25/07/2017	Min	2.7	N/A	N/A	N/A	200	N/A	N/A	N/A	N/A
		Avg	2.8	1.3	6	29.2	220	604	16	<0.03	2.9
		Max	3	N/A	N/A	N/A	230	N/A	N/A	N/A	N/A
27/08/2018	19/09/2018	Min	2	N/A	N/A	N/A	80	N/A	N/A	N/A	N/A
		Avg	2.8	1.3	6.3	29.2	130	573	15	0.76	2.8
		Max	3.9	N/A	N/A	N/A	200	N/A	N/A	N/A	N/A
19/06/2019	12/07/2019	Min	2.6	N/A	N/A	N/A	120	N/A	N/A	N/A	N/A
		Avg	2.8	1.3	5.2	28.6	160	614	18	<0.1	3.3
		Max	3.1	N/A	N/A	N/A	180	N/A	N/A	N/A	N/A
2/07/2020	31/07/2020	Min	3	N/A	N/A	N/A	140	N/A	N/A	N/A	N/A
		Avg	3.1	1.31	5.1	29.3	140	622	15	<0.1	2.8
		Max	3.1	N/A	N/A	N/A	150	N/A	N/A	N/A	N/A

Point-4: Thermal Oxidiser

Month	Combustion Temperature (°C)			Residence Time (s)		
	Min	Max	Mean	Min	Max	Mean
Jan-16	760	782	771	2	2	2
Feb-16	768	768	768	2	2	2
Mar-16	767	768	768	2	2	2
Apr-16	768	768	768	2	2	2
May-16	766	766	766	2	2	2
Jun-16	768	768	768	2	2	2
Jul-16	768	768	768	2	2	2
Aug-16	768	768	768	2	2	2
Sep-16	768	768	768	2	2	2
Oct-16	768	768	768	2	2	2
Nov-16	768	768	768	2	2	2
Dec-16	768	768	768	2	2	2
Jan-17	768	768	768	2	2	2
Feb-17	768	768	768	2	2	2
Mar-17	768	768	768	2	2	2
Apr-17	766	767	766	2	2	2
May-17	768	768	768	2	2	2
Jun-17	768	768	768	2	2	2
Jul-17	768	768	768	2	2	2
Aug-17	768	768	768	2	2	2
Sep-17	768	768	768	2	2	2
Oct-17	768	768	768	2	2	2
Nov-17	768	768	768	2	2	2
Dec-17	768	768	768	2	2	2
Jan-18	762	762	762	2	2	2
Feb-18	760	761	765	2	2	2
Mar-18	764	765	764	2	2	2
Apr-18	763	764	763	2	2	2
May-18	764	765	765	2	2	2
Jun-18	769	770	770	2	2	2
Jul-18	769	771	770	2	2	2
Aug-18	769	771	770	2	2	2
Sep-18	769	770	769	2	2	2
Oct-18	768	770	769	2	2	2
Nov-18	769	770	769	2	2	2
Dec-18	769	770	770	2	2	2
Jan-19	769	770	770	2	2	2
Feb-19	769	770	770	2	2	2
Mar-19	769	770	770	2	2	2
Apr-19	769	770	770	2	2	2
May-19	769	770	770	2	2	2
Jun-19	770	770	770	2	2	2
Jul-19	770	770	770	2	2	2
Aug-19	769	770	770	2	2	2
Sep-19	769	770	770	2	2	2
Oct-19	769	770	770	2	2	2
Nov-19	769	770	769	2	2	2
Dec-19	767	769	768	2	2	2
Jan-20	768	770	769	2	2	2
Feb-20	768	769	769	2	2	2
Mar-20	768	770	769	2	2	2
Apr-20	768	770	769	2	2	2
May-20	769	770	769	2	2	2
Jun-20	768	770	769	2	2	2
Jul-20	782	783	782	2	2	2
Aug-20	768	769	769	2	2	2
Sep-20	769	769	769	2	2	2
Oct-20	768	770	769	2	2	2
Nov-20	766	772	769	2	2	2
Dec-20	769	770	770	2	2	2
Jan-21	768	769	769	2	2	2
Feb-21	769	770	770	2	2	2

Point-5: AS/SVE Emission Stack

	Element	Total Volatile Organic Compounds	Toluene	Ethylbenzene	Xylene	Chloroform	Methylene Chloride	Vinyl Chloride
	Unit of Measure	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³	mg/m ³
	Limit	428	117	250	61	-	-	-
Date of Sampling	Date Results Obtained	Test Results						
28/01/2016	29/01/2016	2.2	0.78	<0.020	0.9	< 0.020	<0.20	< 0.010
24/02/2016	25/02/2016	0.6	0.06	<0.020	0.1	< 0.020	< 0.17	< 0.010
17/03/2016	18/03/2016	3.0	0.70	<0.020	1.2	< 0.020	< 0.17	< 0.010
13/04/2016	14/04/2016	1.1	0.02	<0.020	0.5	< 0.020	< 0.17	< 0.010
26/05/2016	27/05/2016	1.8	0.81	0.04	0.5	< 0.020	< 0.17	< 0.010
15/06/2016	16/06/2016	0.9	0.10	<0.020	0.3	< 0.020	< 0.17	< 0.010
20/07/2016	21/07/2016	1.2	0.60	<0.020	0.4	< 0.020	< 0.17	< 0.010
15/08/2016	16/08/2016	0.8	0.10	0.06	0.4	< 0.020	< 0.17	< 0.010
20/09/2016	21/09/2016	2.2	0.05	0.03	0.4	< 0.020	< 0.17	< 0.010
6/10/2016	7/10/2016	0.9	0.10	0.03	0.4	< 0.020	< 0.17	< 0.010
29/11/2016	30/11/2016	3.5	0.28	0.10	1.9	< 0.020	< 0.17	< 0.010
8/12/2016	9/12/2016	2.9	0.29	0.02	1.8	< 0.020	< 0.17	< 0.010
19/01/2017	20/01/2017	6.4	0.45	0.08	4.0	< 0.020	< 0.17	< 0.010
20/02/2017	21/02/2017*	10.3	0.54	0.04	6.8	< 0.025	< 0.18	< 0.013
6/03/2017	7/03/2017	8.2	0.31	<0.020	5.5	< 0.020	< 0.20	< 0.010
3/04/2017	4/04/2017	4.2	0.32	0.03	2.6	< 0.020	< 0.20	< 0.010
22/06/2017	23/06/2017	3.9	0.20	<0.020	1.8	< 0.020	< 0.20	< 0.010
17/07/2017	21/07/2017	3.0	0.20	<0.020	1.6	< 0.020	< 0.20	< 0.010
3/08/2017	4/08/2017	3.0	0.10	0.04	1.9	< 0.024	< 0.17	< 0.013
5/09/2017	6/09/2017	2.3	0.29	<0.022	1.1	< 0.024	< 0.17	< 0.013
9/10/2017	10/10/2017	8.6	0.23	0.03	2.1	< 0.024	< 0.17	< 0.013
27/11/2017	28/11/2017	4.0	0.47	0.05	2.4	< 0.024	< 0.17	< 0.013
20/12/2017	21/12/2017	6.0	0.71	0.20	3.3	< 0.024	< 0.17	< 0.013
30/01/2018	31/01/2018	4.5	0.61	0.09	2.6	< 0.024	< 0.17	< 0.013
22/02/2018	23/02/2018	4.6	0.20	<0.022	2.8	< 0.024	< 0.172	< 0.013
14/03/2018	15/03/2018	5.0	0.33	0.02	3.0	NA	NA	NA
25/06/2018	26/06/2018	2.3	0.41	0.20	1.3	NA	NA	NA
7/09/2018	8/09/2018	3.2	0.20	0.05	1.9	NA	NA	NA
9/11/2018	9/11/2018	2.0	0.22	0.09	1.1	NA	NA	NA
14/12/2018	14/12/2018	2.0	0.20	<0.022	1.2	NA	NA	NA
10/01/2019	10/01/2019	2.1	0.20	<0.022	1.2	NA	NA	NA
14/02/2019	14/02/2019	1.7	0.20	<0.022	1.0	NA	NA	NA
8/03/2019	8/03/2019	1.6	0.20	<0.022	0.9	NA	NA	NA
29/04/2019	29/04/2019	3.8	0.20	<0.022	2.4	NA	NA	NA
29/05/2019	29/05/2019	1.2	0.20	<0.022	0.6	NA	NA	NA
27/06/2019	27/06/2019	0.9	0.10	<0.022	0.6	NA	NA	NA
29/07/2019	30/07/2019	0.8	0.10	<0.022	0.5	NA	NA	NA
14/08/2019	15/08/2019	0.6	0.10	<0.022	0.4	NA	NA	NA
12/09/2019	12/09/2019	1.1	0.10	0.05	0.7	NA	NA	NA
9/10/2019	10/10/2019	1.0	0.10	0.03	0.6	NA	NA	NA
25/11/2019	26/11/2019	1.0	0.10	<0.022	0.6	NA	NA	NA
18/12/2019	-	system not operational						
23/01/2020	24/01/2020	1.4	0.56	0.03	0.6	NA	NA	NA
28/02/2020	28/02/2020	0.4	0.04	<0.022	0.3	NA	NA	NA
9/03/2020	10/03/2020	0.5	0.10	<0.022	0.3	NA	NA	NA
5/04/2020	6/04/2020	0.7	0.21	<0.022	0.3	NA	NA	NA
7/05/2020	8/05/2020	0.4	0.20	<0.022	0.2	NA	NA	NA
2/06/2020	3/06/2020	0.5	0.10	<0.022	0.27	NA	NA	NA
1/07/2020	2/07/2020	0.4	0.20	<0.022	0.15	NA	NA	NA
3/08/2020	4/08/2020	0.3	0.20	<0.022	0.08	NA	NA	NA
9/09/2020	10/09/2020	0.2	0.04	<0.022	0.09	NA	NA	NA
13/10/2020	14/10/2020	0.3	0.20	<0.022	0.06	NA	NA	NA
27/11/2020	30/11/2020	0.2	0.19	<0.022	0.04	<0.024**	<0.17**	<0.013**
22/12/2020	23/12/2020	1.1	0.80	<0.022	0.04	<0.024**	<0.17**	<0.013**
19/01/2021	20/01/2021	1.1	0.93	<0.022	0.02	<0.0048**	<0.035**	<0.0026**
4/02/2021	5/02/2021	0.9	0.68	<0.022	0.04	<0.024**	<0.170**	<0.013**

Point-6: Groundwater Monitoring

Element	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Carbon Tetrachloride	Chloroform	Chloromethane	Methylene Chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Date of Sampling	Date Results Obtained	Test Results									
27/01/2016	10/02/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
24/02/2016	3/03/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
17/03/2016	30/03/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
13/04/2016	20/04/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
19/05/2016	26/05/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
15/06/2016	24/06/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
20/07/2016	27/07/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
15/08/2016	23/08/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
20/09/2016	28/09/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
6/10/2016	14/10/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
29/11/2016	8/12/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
8/12/2016	19/12/2016	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
19/01/2017	30/01/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
20/02/2017	2/03/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
6/03/2017	14/03/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
3/04/2017	10/04/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
22/05/2017	29/05/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
26/06/2017	4/07/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
20/07/2017	28/07/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
3/08/2017	10/08/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
5/09/2017	15/09/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9/10/2017	16/10/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
28/11/2017	8/12/2017	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
20/12/2017	8/01/2018	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
30/01/2018	8/02/2018	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500
22/02/2018	6/03/2018	<50	<50	<50	<50	<50	<50	<50	<50	<50	<500

Point-7: Groundwater Monitoring

Date of Sampling	Date Results Obtained	Element	1,2-Dichloroethane	cis-1,2-Dichloroethylene	trans-1,2-Dichloroethylene	Carbon Tetrachloride	Chloroform	Chloromethane	Methylene Chloride	Tetrachloroethene	Trichloroethene	Vinyl chloride
		Unit of Measure	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
		Test Results										
21/12/2015	5/01/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
27/01/2016	10/02/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
24/02/2016	3/03/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
16/03/2016	30/03/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
13/04/2016	20/04/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
19/05/2016	26/05/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
15/06/2016	24/06/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
20/07/2016	27/07/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
15/08/2016	23/08/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
21/09/2016	28/09/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
6/10/2016	14/10/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
29/11/2016	8/12/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
8/12/2016	19/12/2016	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
19/01/2017	30/01/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
20/02/2017	2/03/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
7/03/2017	14/03/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
3/04/2017	10/04/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
22/05/2017	29/05/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
27/06/2017	4/07/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
20/07/2017	28/07/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
3/08/2017	10/08/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
8/09/2017	15/09/2017	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
9/10/2017	16/10/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
28/11/2017	8/12/2017	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
20/12/2017	8/01/2018	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
30/01/2018	8/02/2018	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50
22/02/2018	6/03/2018	<5	<5	<5	<5	<5	<5	<50	<5	<5	<5	<50

Date of Sampling	Date Results Obtained	Element	Ethyl benzene	Toluene	TPH C6-C9 Fraction	TPH C10-C14	TPH C15-C28	TPH C29-C36	Volatile Organic Compounds	Xylene		
		Unit of Measure	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
		Test Results										
14/03/2018	27/03/2018	262	3	670	300	<100	<50	1021	177			
25/06/2018	11/07/2018	275	273	1170	140	<100	<50	1390	283			
7/09/2018	8/09/2018	32	3.0	80.0	70.0	<100	<50	106.0	22.0			
9/11/2018	9/11/2018	24	3.0	40.0	<50	<100	<50	85.0	12.0			
14/12/2018	14/12/2018	11	<2	20.0	<50	<100	<50	14.0	4.0			
10/01/2019	10/01/2019	4	<2	<20	<50	<100	<50	4.0	<2			
14/02/2019	14/02/2019	8	<2	<20	<50	<100	<50	11.0	3.0			
8/03/2019	8/03/2019	2	<2	<20	<50	<100	<50	2.0	<2			
29/04/2019	14/05/2019	234	330	2760	350	<100	<50	3120	1510			
29/05/2019	12/06/2019	225	20	1040	470	<100	<50	1399	384			
27/06/2019	22/07/2019	4	<2	30	<50	<100	<50	21	17			
11/07/2019	22/07/2019	10	<2	40	<50	<100	<50	32	22			
14/08/2019	21/08/2019	<2	<2	<20	<50	<100	<50	<1	<2			
12/09/2019	20/9/109	<2	<2	<20	<50	<100	<50	<1	<2			
9/10/2019	18/10/2019	<2	<2	<20	<50	<100	<50	<1	<2			
18/11/2019	4/12/2019	<2	<2	<20	<50	<100	<50	<1	<2			
18/12/2019	7/01/2020	<2	<2	<20	<50	<100	<50	<1	<2			
24/01/2020	24/02/2020	3	3	<20	<50	<100	<50	15	9			
12/02/2020	13/03/2020	6	<2	<20	<50	<100	<50	11	5			
10/03/2020	17/03/2020	<2	<2	<20	<50	<100	<50	<1	<2			
7/04/2020	16/04/2020	<2	<2	<20	<50	<100	<50	<1	<2			
8/05/2020	18/05/2020	<2	<2	<20	<50	<100	<50	<1	<2			
3/06/2020	12/06/2020	<2	<2	<20	<50	<100	<50	<1	<2			
2/07/2020	9/07/2020	<2	<2	<20	<50	<100	<50	<1	<2			
4/08/2020	12/08/2020	<2	<2	<20	<50	<100	<50	<1	<2			
10/09/2020	18/09/2020	<2	<2	<20	<50	<100	<50	<1	<2			
14/10/2020	21/10/2020	<2	<2	<20	<50	<100	<50	<1	<2			
27/11/2020	4/12/2020	<2	<2	<20	<50	<100	<50	<1	<2			
22/12/2020	29/12/2020	<2	<2	<20	<50	<100	<50	<1	<2			
19/01/2021	27/01/2021	<2	<2	<20	<50	<100	<50	<1	<2			
2/02/2021	9/02/2021	<2	<2	<20	<50	<100	<50	<1	<2			