Environmental Monitoring Data Report

Company Name: Allnex Resins (Aus) Pty Limited
Site: Botany
Address: 49-61 Stephen Road, Botany, NSW 2019
Licence No: 933

Point-1: Discharge to Water

		Element	BOD	COD	Total suspended solids	Oil & Grease	pH
		Unit of measure	mg/L	mg/L	mg/L	mg/L	pH
		Frequency	Every discharge				
		Limits	20	50	30	10	6.5-8.5
Date of Sampling	Date Results Obtained		Test Results				

Volume of liquid discharged (kL/day)													
Date	Vol	Date	Vol	Date	Vol	Date	Vol	Date	Vol	Date	Vol	Date	Vol
6/01/21	141	7/01/21	134	8/01/21	82								
3/02/21	133	4/02/21	151	5/02/21	150	8/02/21	33						
22/02/21	97	25/02/21	11										
1/03/21	100	2/03/21	150	3/03/21	146	4/03/21	89						
23/03/21	150	24/03/21	149	25/03/21	144	26/03/21	144						
12/04/21	150	13/04/21	149	14/04/21	146								
10/05/21	151	11/05/21	149	12/05/21	146	13/05/21	152						
23/06/21	150	24/06/21	150	25/06/21	149	28/06/21	100						
5/07/21	150	6/07/21	149	7/07/21	150	8/07/21	100						
1/09/21	150	2/09/21	150	3/09/21	151	6/09/21	145						
15/09/21	61	16/09/21	144	17/09/21	150	18/09/21	122	20/09/21	100				
15/10/21	77	16/10/21	135	18/10/21	144	19/10/21	70						
11/11/21	150	12/11/21	144	15/11/21	100	16/11/21	154	17/11/21	100				
24/11/21	151	25/11/21	149	26/11/21	144	29/11/21	150	30/11/21	123				
15/12/21	151	16/12/21	149	17/12/21	144	20/12/21	133						
12/01/22	86	13/01/22	114	14/01/22	117	17/01/22	106	18/01/22	110				
20/01/22	114	21/01/22	77										
7/02/22	150	8/02/22	146	9/02/22	152	10/02/22	156						
14/03/22	151	15/03/22	149	16/03/22	144	17/03/22	150	18/03/22	100				
28/03/22	107	30/03/22	100	31/03/22	117								
11/04/22	133	12/04/22	140	13/04/22	152	14/04/22	144						
1/05/22	151	2/05/22	144	3/05/22	70	4/05/22	160						
25/05/22	146	26/05/22	150	27/05/22	91	30/05/22	152	31/05/22	78				
6/07/22	150	7/07/22	122	8/07/22	153								
12/07/22	144	13/07/22	150	14/07/22	150	15/07/22	144						
19/07/22	150	20/07/22	136	21/07/22	150	25/07/22	115	26/07/22	150				
26/08/22	144	29/08/22	151	30/08/22	178	31/08/22	152						
20/09/22	144	21/09/22	132	22/09/22	144	23/09/22	100						
5/10/22	102	7/10/22	105										
12/10/22	156	13/10/22	149	14/10/22	140	15/10/22	140						
20/10/22	160	21/10/22	118	22/10/22	150								
16/11/22	144	17/11/11	151	18/11/22	144	21/11/22	150						
19/12/22	107	21/12/22	144										
12/01/23	38	13/01/23	154	16/01/23	150	17/01/23	139	18/01/23	144				
3/02/23	150	6/02/23	149										
14/02/23	144	15/02/23	133	16/02/23	150	17/02/23	137						
27/02/23	86	28/02/23	155	1/03/23	122	2/03/23	150	3/03/23	40				
6/04/23	56	11/04/23	144	12/04/23	150	13/04/23	100						
19/04/23	155	20/04/23	100	21/04/23	77								
3/05/23	150	4/05/23	100										
23/05/23	144	24/05/23	150	25/05/23	123								
27/07/23	100	28/07/23	119	31/07/23	145	1/08/23	150	2/08/23	92				
16/08/23	140	17/08/23	140	18/08/23	118	21/08/23	122	28/08/23	96				
9/11/23	144	10/11/23	100	13/11/23	150	14/11/23	151	15/11/23	85				
22/11/203	90	23/*11/23	151	24/11/23	80	25/11/23	80	27/11/23	121	28/11/23	96		
4/12/23	150	5/12/23	151	6/12/23	144								
18/01/24	123	19/01/24	150	22/01/24	145	23/01/24	112						
9/02/24	112	12/02/24	155	13/02/24	148								
21/02/24	144	22/02/24	140	23/02/24	150	24/02/24	66	26/02/24	111				
6/04/24	56	11/04/24	144	12/04/24	150	13/04/24	100						
19/04/24	155	20/04/24	100	21/04/24	77	3/05/24	150	4/05/24	100				

Date of Sampling	Date Results Obtained	BOD	COD	Total suspended solids	Oil & Grease	pH
4/01/21	14/01/21	<5	13	<5	<5	7.1
1/02/21	8/02/21	<5	15	<5	<5	7.1
18/02/21	24/02/21	<5	14	<5	<5	7.7
26/02/21	3/03/21	<5	19	5	<5	7.7
19/03/21	22/03/21	<5	7	<5	<5	8.5
8/04/21	9/04/21	<5	<5	11	<5	8.3
6/05/21	7/05/21	<5	25	8	<5	8.4
21/06/21	22/06/21	<5	14	25	<5	8
1/07/21	2/07/21	<5	13	<5	<5	8.3
27/08/21	30/08/21	9	22	<5	<5	7.3
14/09/21	15/09/21	5	18	<5	<5	8.2
13/10/21	14/10/21	<5	26	<5	<5	8.4
9/11/21	10/11/21	<5	<5	<5	<5	8.5
22/11/21	23/11/21	<5	8	<5	<5	7.8
13/12/21	14/12/21	<5	14	6	<5	7.9
7/01/22	17/01/22	<5	17	<5	<5	8
17/01/22	24/01/22	<5	17	17	<5	7.7
3/02/22	9/02/22	<5	22	<5	<5	7
9/03/22	14/03/22	<5	27	<5	<5	7.5
24/03/22	30/03/22	<5	7	<5	<5	8.4
7/04/22	13/04/22	<5	6	<5	<5	8.2
26/04/22	2/05/22	<5	17	6	<5	8.3
23/05/22	30/05/22	<5	7	<5	<5	7
1/07/22	6/07/22	<5	19	<5	<5	7.3
11/07/22	19/07/22	<5	9	<5	<5	8.4
18/07/22	27/07/22	<5	16	<5	<5	8.3
24/08/22	31/08/22	<5	17	<5	<5	8
16/09/22	21/09/22	<5	16	<5	<5	7.8
30/09/22	6/10/22	<5	15	<5	<5	8
10/10/22	17/10/22	<5	8	<5	<5	8.1
18/10/22	24/10/22	<5	19	<5	<5	8
14/11/22	21/11/22	<5	17	<5	<5	7.9
14/12/22	19/12/22	<5	27	6	<5	7.3
8/01/23	16/01/23	<5	11	<5	<5	7.6
1/02/23	6/02/23	<5	11	<5	<5	8.1
10/02/23	15/02/23	<5	<5	6	<5	7.9
22/02/23	27/02/23	<5	10	6	<5	7.8
3/04/23	12/04/23	<5	8	<5	<5	7.9
17/04/23	24/07/23	<5	13	<5	<5	7.8
1/05/23	9/05/23	<5	13	<5	<5	8
19/05/23	24/05/23	<5	8	<5	<5	7.8
24/07/23	1/08/23	<5	8	<5	<5	7.9
14/08/23	21/08/23	<5	14	6	<5	7.9
6/11/23	13/11/23	<5	5	<5	<5	8.1
17/11/23	29/11/23	<5	13	<5	<5	7.4
30/11/23	6/12/23	<5	15	<5	<5	6.9
15/01/24	22/01/24	<5	13	<5	<5	7.8
7/02/24	13/02/24	10	29	8	<5	8.1
20/02/24	27/02/24	<5	<5	<5	<5	8.1
18/03/24	25/03/24	<5	13	<5	<5	8
8/04/24	15/04/24	<5	11	6	<5	8

6/05/24	13/05/24	<5	<5	<5	<5	8	23/05/24	144	24/05/24	150	25/05/24	123								
3/06/24	11/06/24	<5	<5	<5	<5	8.1	7/06/24	150	11/06/24	150	12/06/24	134	13/06/24	144						
24/06/24	1/07/24	<5	<5	<5	<5	7.3	28/06/24	75	29/06/24	50	29/06/24	50	1/07/24	144	2/07/24	150				
19/08/24	26/08/24	<5	10	<5	<5	7.8	23/08/24	55	26/08/24	99	27/08/24	112								
4/07/24	10/07/24	<5	8	<5	<5	6.8	9/07/24	67	10/07/24	149	11/07/24	136	12/07/24	150						
19/08/24	26/08/24	<5	10	<5	<5	7	23/08/24	56	26/08/24	99	27/08/24	112								
30/09/24	8/10/24	<5	17	<5	<5	7.5	3/10/24	150	4/10/24	150	8/10/24	150	9/10/24	83						
15/10/24	21/10/24	<5	12	<5	<5	6.9	21/10/24	151	22/06/24	144	23/10/24	150	24/10/24	100						
14/11/24	20/11/24	<5	11	<5	<5	7.8	21/11/24	144	22/11/24	150	25/11/24	144	26/11/24	100						
9/12/24	16/12/24	<5	14	<5	<5	7.4	16/12/24	133	17/12/24	144	18/12/24	100								

Point-2: Discharge to Air

		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/m3	%	g/gmole	mg/m3	deg C	m/s	mg/m3	m3/s
		Frequency	Annual	Annual	Annual	Annual	Annual	Continuous	Annual	Annual	Continuous
Date of Sampling	Date Results obtained	Test Results									
11/08/2021	15/09/2021	Min	2.4	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A
		Avg	2.8	1.3	5.1	29.2	130	602	18	0.87	3.4
		Max	3.4	N/A	N/A	N/A	150	N/A	N/A	N/A	N/A
6/09/2022	14/10/2022	Min	3.1	N/A	N/A	N/A	110	N/A	N/A	N/A	N/A
		Avg	3.3	1.3	10	29.3	120	516	18	0.39	3.3
		Max	3.5	N/A	N/A	N/A	120	N/A	N/A	N/A	N/A
29/11/2023	19/12/2023	Min	0.4	N/A	N/A	N/A	7	N/A	N/A	N/A	N/A
		Avg	1.7	1.3	8.7	29.1	57	563	17	<0.2	0.92
		Max	3.6	N/A	N/A	N/A	130	N/A	N/A	N/A	N/A
20/11/2024	16/12/2024	Min	2.5	N/A	N/A	N/A	59	N/A	N/A	N/A	N/A
		Avg	3.6	1.31	6.4	29.4	96	545	17	0.16	0.97
		Max	3.9	N/A	N/A	N/A	100	N/A	N/A	N/A	N/A

Point-4: Thermal Oxidiser

	Combustion Temperature (ºC)			Residence Time (s)		
Month	Min	Max	Mean	Min	Max	Mean
Jan-21	768	769	769	2	2	2
Feb-21	769	770	770	2	2	2
Mar-21	770	771	770	2	2	2
Apr-21	769	770	770	2	2	2
May-21	769	770	770	2	2	2
Jun-21	769	770	769	2	2	2
Jul-21	768	770	769	2	2	2
Aug-21	768	770	769	2	2	2
Sep-21	768	770	769	2	2	2
Oct-21	768	769	768	2	2	2
Nov-21	762	764	763	2	2	2
Dec-21	768	770	769	2	2	2
Jan-22	767	768	767	2	2	2
Feb-22	767	768	768	2	2	2
Mar-22	768	769	768	2	2	2
Apr-22	768	770	769	2	2	2
May-22	768	769	769	2	2	2
Jun-22	768	770	769	2	2	2
Jul-22	780	781	780	2	2	2
Aug-22	768	768	768	2	2	2
Sep-22	769	769	769	2	2	2
Oct-22	769	770	769	2	2	2
Nov-22	766	771	769	2	2	2
Dec-22	769	770	770	2	2	2
Jan-23	768	769	769	2	2	2
Feb-23	768	769	769	2	2	2
Mar-23	768	769	769	2	2	2
Apr-23	768	769	769	2.2	2.2	2.2
May-23	768	769	768	2.2	2.2	2.2
Jun-23	769	769	769	2.2	2.2	2.2
Jul-23	768	770	769	2.2	2.2	2.2
Aug-23	768	770	769	2.2	2.2	2.2
Sep-23	768	769	769	2.2	2.2	2.2
Oct-23	768	769	768	2.2	2.2	2.2
Nov-23	768	769	769	2.2	2.2	2.2
Dec-23	768	769	769	2.2	2.2	2.2
Jan-24	768	769	769	2.2	2.2	2.2
Feb-24	768	769	769	2.2	2.2	2.2
Mar-24	768	769	769	2.2	2.2	2.2
Apr-24	768	770	769	2.2	2.2	2.2
May-24	768	770	769	2.2	2.2	2.2
Jun-24	768	769	768	2.2	2.2	2.2
Jul-24	768	770	769	2.2	2.2	2.2
Aug-24	768	769	769	2.2	2.2	2.2
Sep-24	768	769	769	2.2	2.2	2.2
Oct-24	768	769	769	2.2	2.2	2.2
Nov-24	768	769	769	2.2	2.2	2.2
Dec-24	768	769	769	2.2	2.2	2.2

Point-5: AS/SVE Emission Stack

	Element	Total Volatile Organic Compounds	Toluene	Ethylbenzene	Xylene
	Unit of Measure	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			
19/01/2021	20/01/2021	1	0.9	<0.022	0.0
4/02/2021	5/02/2021	1	0.7	<0.022	0.0
23/03/2021	7/04/2021	1	0.7	<0.022	<0.02
22/04/2021	10/05/2021	0	0.4	<0.022	<0.022
21/05/2021	11/06/2021	1	0.4	<0.022	<0.022
29/06/2021	26/07/2021	10	0.4	4.9	4.3
3/08/2021	17/09/2021	0	0.1	<0.022	0.0
1/09/2021	8/09/2021	1	0.9	<0.022	0.0
27/09/2021	29/09/2021	0	<0.019	<0.022	0.0
23/12/2021	21/01/2022	0	<0.019	<0.022	0.1
22/04/2022	26/04/2022	0	<0.019	<0.022	0.1
27/07/2022	5/08/2022	0	<0.019	<0.022	<0.022
30/11/2022	8/12/2022	0	<0.019	<0.022	<0.022
23/01/2023	25/01/2023	0	<0.019	<0.022	<0.022
13/04/2023	24/04/2023	0	0.0	<0.022	<0.022
28/08/2023	18/10/2023	0	<0.019	<0.022	<0.022
12/10/2023	31/10/2023	0	0	0	0
12/01/2024	1/02/2024	0	<0.019	<0.022	<0.022
19/04/2024	17/05/2024	0	<0.019	<0.022	<0.022

Point-6: Groundwater Monitoring

	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
Date of Sampling	Date Results Obtained	Test Results							
19/01/2021	27/01/2021	7360	118	24700	3680	120	<50	28395	9460
3/02/2021	9/02/2021	17600	1040	52000	3150	170	<50	56416	15700
26/03/2021	7/04/2021	30600	16400	105000	2490	<100	<50	110800	23200
22/04/2021	10/05/2021	30100	15200	93600	2590	<100	<50	100390	23800
17/05/2021	11/06/2021	45000	11000	120000	8000	1200	100	109940	37000
29/06/2021	26/07/2021	31200	4290	87100	9610	870	<50	96040	24700
2/08/2021	17/09/2021	26600	3380	82300	7560	<100	<50	92560	25900
1/09/2021	17/09/2021	9110	730	32600	4100	260	4360	40200	13100
25/10/2021	24/01/2022	5360	627	18600	3320	240	<50	23270	7950
12/11/2021	24/01/2022	4020	325	14400	3460	290	<50	19070	6390
10/12/2021	24/01/2022	2810	973	14000	3780	320	<50	18280	5640
17/01/2022	4/02/2022	935	105	4700	560	180	<50	5240	1890
16/02/2022	11/05/2022	3440	515	14300	1780	270	<50	16020	4850
16/03/2022	11/05/2022	1350	297	4170	910	230	<50	5020	1310
22/04/2022	11/05/2022	898	196	-	-	-	-	-	880
12/05/2022	18/07/2022	8430	3250	30700	2190	250	< 50	33482	8990
23/06/2022	18/07/2022	3920	444	13900	640	120	<50	15710	3840
28/07/2022	21/10/2022	3320	203	11800	990	130	<50	13130	4070
25/08/2022	21/10/2022	2680	158	9900	980	300	<50	11560	4230
29/09/2022	21/10/2022	2720	72	9720	730	210	<50	11150	3470
26/10/2022	4/11/2022	1180	29	5500	370	230	<50	7226	1722
29/11/2022	7/12/2022	1450	53	4530	150	<100	<50	5455	1635
15/12/2022	24/01/2023	2990	95	9040	670	310	<50	11830	3260
23/01/2023	20/02/2023	987	63	3880	130	580	<50	4786	1340
21/02/2023	14/03/2023	987	6190	26400	1390	<100	<50	30990	7780
21/03/2023	17/04/2023	839	53	2460	80	<100	<50	3550	1130
12/04/2023	3/05/2023	481	12	1950	60	180	<50	2475	600
18/05/2023	31/05/2023	663	30	2600	520	<100	<50	3575	1020
20/06/2023	3/07/2023	720	36	3030	430	<100	<50	4290	1160
20/07/2023	4/08/2023	96	4	420	<50	<100	<50	630	180
28/08/2023	13/10/2023	373	13	1090	<50	<100	<50	1364	568
21/09/2023	16/10/2023	680	14	2700	<50	160	<50	3744	950
12/10/2023	31/10/2023	85	5	450	<50	<100	<50	548	230
15/11/2023	6/12/2023	87	<2	330	<50	<100	<50	386	149
14/12/2023	27/12/2023	81	2	270	<50	<100	<50	390	107
11/01/2024	1/02/2024	190	10	760	90	500	200	1507	240
16/02/2024	13/03/2024	15	<2	50	<50	<100	<50	172	27
20/03/2024	11/04/2023	10	<2	80	<50	<100	<50	208	33
19/04/2024	17/05/2024	36	5	140	<50	<100	<50	279	63
28/05/2024	14/06/2024	286	3	880	160	<100	<50	1206	322
17/06/2024	5/07/2024	1680	135	3630	450	<100	<50	4470	1610
27/07/2024	16/08/2024	50	2	160	<50	<100	<50	301	61
20/08/2024	22/10/2024	2510	114	6580	1090	<100	<50	7850	3130
27/09/2024	22/10/2024	24	<2	60	<50	<100	<50	178	29
16/10/2024	22/11/2024	112	<2	320	<50	<100	<50	515	123
26/11/2024	20/12/2024	2930	32	7740	360	<100	<50	8230	2850

Point-7: Groundwater Monitoring

	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
Date of Sampling	Date Results Obtained	Test Results							
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
26/03/2021	7/04/2021	<2	<2	<20	<50	<100	<50	<1	<2
22/04/2021	10/05/2021	<2	<2	<20	<50	<100	<50	<1	<2
21/05/2021	11/06/2021	<2	<2	<20	<50	<100	<50	<1	<2
29/06/2021	26/07/2021	<2	<2	<20	<50	<100	<50	<1	<2
3/08/2021	17/09/2021	<2	<2	<20	<50	<100	<50	<1	<2
1/09/2021	17/09/2021	<2	<2	<50	<50	<100	<50	<1	<2
27/10/2021	24/01/2022	<2	<2	<20	<50	<100	<50	<1	<2
17/01/2022	4/02/2022	<2	<2	<20	<50	<100	<50	<1	<2
22/04/2022	11/05/2022	<2	<2	-	-	-	-	-	<2
12/05/2022	18/07/2022	< 2	< 2	< 20	< 50	< 100	< 50	< 100	< 2
27/10/2022	4/11/2022	< 2	< 2	< 20	< 50	< 100	< 50	< 100	< 2
23/01/2023	20/02/2023	<2	<2	<20	<50	<100	<50	<1	<2
12/04/2023	3/05/2023	<2	<2	<20	<50	<100	<50	<1	<2
20/07/2023	4/08/2023	<2	<2	<20	<50	<100	<50	<50	<20
12/10/2023	31/10/2023	<2	<2	<20	<50	<100	<50	<50	<2
11/01/2024	1/02/2024	<2	<2	<20	<50	<100	<50	<1	<2
19/04/2024	17/05/2024	<2	<2	<20	<50	<100	<50	<1	<2
20/08/2024	22/10/2024	<2	<2	<20	<50	<100	<50	<1	<2
16/10/2024	20/12/2024	<2	<2	<20	<50	<100	<50	<1	<2