



# EPL 21054 Monitoring Data

4 June 2023 – 3 June 2024

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## 1. INTRODUCTION

Aspect Environmental Pty Ltd are engaged by the Licence Holder, LOGOS MLP DEVELOPMENT MANAGEMENT PTY LTD (LOGOS) to collate monitoring results pertaining to EPL 21054 and display them on the LOGOS - Moorebank Intermodal Precinct website.

## 2. PURPOSE

Summarise the Discharge Point Monitoring Results for the reporting period 4 June 2023 – 3 June 2024.

## 3. BACKGROUND

The Moorebank Intermodal Terminal Precinct construction site is located on Moorebank Avenue, Moorebank in Sydney's south-west.

EPL 21054 was issued on 4 June 2018 for the Scheduled Activity of "Crushing, grinding or separating".

On 18 April 2019 the NSW EPA issued Variation No. 1 of EPL 21054 for the addition of Scheduled Activity "Extractive activities" and the provision of defined discharge monitoring points including parameters for monitoring discharges to water and land.

On 22 October 2020 the NSW EPA issued Variation No. 2 to remove the scheduled activity "Extractive activities". The Licence was further varied in consideration of s45 of the Act to include condition relating to dust control, emergency response, minor administrative changes and an amendment to special condition E1.

On the 21 June 2021 the NSW EPA issued Variation No. 3 to remove discharge point 5 and to update the discharge point 7 pollution criteria to include PFOS, PFHxS and PFOA.

On 22 December 2021, the NSW EPA issued Variation No.4. In total nine variations were made to the licence, notably the variations included the addition of three discharge points and the removal of Total Suspended Solids as an approved pollutant.

On the 30 March 2022, the NSW EPA issued Variation No. 5, the transfer of the Licence holder from QUBE RE SERVICES (NO.2) to LOGOS. Subsequently, the current version of EPL 21054 was issued on 12 April 2022.

On the 7 October 2022, the NSW EPA issued Variation No.6. Variations included reduction in licence area, inclusion of a new discharge point and the removal of another.

On the 1 September 2023, the NSW EPA issued Variation No.7, the current Licence. Variations included the inclusion of Schedule Activity – Contaminated soil treatment and associated conditions.

### Monitoring Comments

The site is well contained with most of the rainwater either being absorbed, evaporated, or reused for dust control. Further, the only process on site that generates water as a by-product for discharge is water treatment by the three on site water treatment plants. Treatment is in direct response to rainfall and PFAS being identified by sampling of sediment basin water. Discharge is not regular and does not always occur after rain. During the reporting period the site discharged:

- No construction related discharge occurred at DP1
- No construction related discharge occurred at DP2
- On 14 occasions at DP3, discharge at DP3 was also driven by water treatment plant discharge, hence the number of sample events reported exceeding the number required
- On 11 occasions at DP4, discharge at DP4 was driven by water treatment plant discharge only, hence the number of sample events reported exceeding the number required
- On 17 occasions at DP5, discharge at DP5 was also driven by water treatment plant discharge, hence the number of sample events reported exceeding the number required
- On six occasions at DP7
- No construction related discharge occurred at DP8
- No construction related discharge occurred at DP9
- On six occasions at DP10.

Criteria exceedances were identified within the data set.

- Turbidity exceedance at DP 3 - during the sampling event it was identified that water entering the system upstream (constructed culvert that serves Moorebank Ave, Defence land and Operations precinct for Moorebank East) of construction site influence was already impacted by turbidity, unfortunately an upstream sample was not collected.
- Turbidity exceedances at DP 7 – two criteria exceedances occurred, one was for the incident reported on 22/5/2024, the second was collected during a rainfall event that exceeded a total of 24.4mm of rainfall over any consecutive five-day period (EPL condition L2.5).
- Turbidity exceedances at DP 10 - except for the incident reported on the 18 April 2024 and a similar issue not reported on 28/3/2024, these samples were collected during rainfall events that exceeded a total of 24.4mm of rainfall over any consecutive five-day period (EPL condition L2.5).

No other exceedances occurred in the reporting period.

## **4. CONCLUSION**

Except for the two incidents reported, the compliance obligations of the Licensee regarding Discharge Point monitoring have been satisfactorily executed.

## **5. APPENDICES**

Appendix 1 – Discharge Monitoring Data Summary Table  
Appendix 2 – Bureau of Meteorology Rainfall Records  
Appendix 3 – Discharge Monitoring Data Report

## APPENDIX 1 – DISCHARGE MONITORING DATA SUMMARY TABLE

**EPL 21054, Monitoring Period 04/06/2024-03/06/202, DPs 1,2, 3, 4, 5, 7, 8, 9 and 10.**

**Discharge and Monitoring Point 1**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	N/A	-	-	-
Turbidity	ntu	0	N/A	-	-	-

**Discharge and Monitoring Point 2**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	N/A	-	-	-
Turbidity	ntu	0	N/A	-	-	-

**Discharge and Monitoring Point 3**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	5	14	7.09	7.65	8.01
Turbidity	ntu	5	14	<0.1	7.2	31
PFHxS	µg/L	5	14	<0.01	<0.01	0.02
PFOS	µg/L	5	14	<0.01	0.01	0.04
PFOA	µg/L	5	14	<0.01	<0.01	0.04

**EPL 21054, Monitoring Period 04/06/2024-03/06/202, DPs 1,2, 3, 4, 5, 7, 8, 9 and 10.**

**Discharge and Monitoring Point 4**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	7	11	7.12	7.59	8.49
Turbidity	ntu	7	11	<0.01	0.5	1.2
PFHxS	µg/L	7	11	<0.01	<0.01	<0.01
PFOS	µg/L	7	11	<0.01	<0.01	<0.01
PFOA	µg/L	7	11	<0.01	<0.01	<0.01

**Discharge and Monitoring Point 5**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	9	17	6.95	7.42	7.94
Turbidity	ntu	9	17	<0.1	0.8	4.6
PFHxS	µg/L	9	17	<0.01	<0.01	<0.01
PFOS	µg/L	9	17	<0.01	<0.01	0.05
PFOA	µg/L	9	17	<0.01	<0.01	0.01



**EPL 21054, Monitoring Period 04/06/2024-03/06/202, DPs 1,2, 3, 4, 5, 7, 8, 9 and 10.**

**Discharge and Monitoring Point 7**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	6	6	7.2	7.6	8.1
Turbidity	ntu	6	6	7.1	27.7	76
PFHxS	µg/L	6	6	<0.01	0.01	0.02
PFOS	µg/L	6	6	0.02	0.06	0.09
PFOA	µg/L	6	6	<0.01	<0.01	<0.01

**Discharge and Monitoring Point 8**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	N/A	-	-	-
Turbidity	ntu	0	N/A	-	-	-
PFHxS	µg/L	0	N/A	-	-	-
PFOS	µg/L	0	N/A	-	-	-
PFOA	µg/L	0	N/A	-	-	-

**EPL 21054, Monitoring Period 04/06/2024-03/06/202, DPs 1,2, 3, 4, 5, 7, 8, 9 and 10.**

**Discharge and Monitoring Point 9**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	0	N/A	-	-	-
Turbidity	ntu	0	N/A	-	-	-
PFHxS	µg/L	0	N/A	-	-	-
PFOS	µg/L	0	N/A	-	-	-
PFOA	µg/L	0	N/A	-	-	-

**Discharge and Monitoring Point 10**

Pollutant	Unit of measure	No. of samples required	No. of samples collected and analysed	Lowest sample value	Mean of sample	Highest sample value
pH	pH	6	6	7.4	7.6	7.9
Turbidity	ntu	6	6	7.7	93.8	390
PFHxS	µg/L	6	6	<0.01	0.01	0.03
PFOS	µg/L	6	6	<0.01	0.07	0.12
PFOA	µg/L	6	6	<0.01	<0.01	0.01

## APPENDIX 2 – BUREAU OF METEOROLOGY RAINFALL RECORDS

**HOLSWORTHY AERODROME RAINFALL (MM) FOR EPL ANNUAL RETURN PERIOD**

Day	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total for period
1		0	0	0.2	0	0	0.6	4	0	0	0	0.2	0.4	
2		0	0	0	0	0	0	0	0	0.2	0	0.4	56	
3		0	0	0	0	0	25.2	0	0	0.8	1	0.6	0	
4	0	4	0	0	0	0	0.2	0	0	0	0	2.4		
5	0.2	3.2	0	0	0.12	20.2	0	3.2	0	0	20.6	6.6		
6	0.2	0.2	11.1	0	0	1.2	0	0	38.8	0	112.2	42.4		
7	0.2	0	0	0	0	0	0		0	0	0	2.8		
8	0	0	1.8	2.4	0	0	0	0	0	0	0	8.6		
9	1.8	0	0.2	3	0	1.6	0	6	0	0	0	9.6		
10	0	0	0	0	0	15.8	0		0	0	5.4			
11	0	0	0	0	0	0	0	0	0	0	0			
12	0	0	0	0	0	0	0	1.8	0	0	0	21.8		
13	0.8	0	0	0	3.2	0	0	0			0	4.2		
14	0	0	12.8	0		0	5.4	0	7.2	0	0	0		
15	0	0	1	0	0	0	0	10	1.4	2.8	0.2	0		
16	0	0	0.2	0	0	0	0	4		0.6	0	0		
17	0	0.2	0	0	1.4	4.8	0	2.2		17.8	0	0		
18	0	0.2	3.6	0	2.8	0	0	12.8	0	0.2	0	0		
19	0	0	0	0	0	0	0	0	1.2	1	3.2	0		
20	0	0	0	0	0	0	17.6	0	10.6	0	0	0		
21	0	0	0	0	0	3.6	10.8	0	14.2	0	0	0		
22	0	0.2	0	0.2	0	0.2		0	0.2	0.2	0	0		
23	5.6	0	2.2	0	0	0.6		0.4	0	0	0.2	0		
24	0	1.2	0.4	0		4	1	0.4	0.8	0	0	0		
25	0	0	0.2	6.4	0	8	31.4	0	0	0	0	0		

<b>HOLSWORTHY AERODROME RAINFALL (MM) FOR EPL ANNUAL RETURN PERIOD</b>														
Day	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Total for period
26	0	0.2	0	0	0	1	0.4	0	0	0	0	0		
27	0	0	0	0.6		0.8	0	0.2	0	0	0	0		
28	1.8	0	0	24	0.8	0	1.4	1.4	0.6	0	0	0		
29	2.4	0	0.6	0.2	0	11.4			0	0	0	0		
30	0	0	0	0	0	16.4	0	0.2		0	0.2	0		
31		0	11.2		0		1	0.2		0		0		
<b>Total</b>	<b>13</b>	<b>9.4</b>	<b>45.3</b>	<b>37</b>	<b>8.32</b>	<b>89.6</b>	<b>95</b>	<b>46.8</b>	<b>75</b>	<b>23.6</b>	<b>143</b>	<b>99.6</b>	<b>56.4</b>	<b>742.02</b>

## APPENDIX 3 – DISCHARGE MONITORING DATA REPORT

**MLP Discharge Point Summary 04/06/2023 to 28/05/2024**

Project Number: 62668

Project Name: Moorebank Precinct West



	PFAS							Ionic Balance	Other
	Perfluorooctanoic acid (PFOA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorooctanesulfonic acid (PFOS)	1H-, 1H-, 2H-, 2H- perfluorooctanesulfonic acid (6:2 FTSA)	Sum of PFHxS and PFOS	Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	Sum of US EPA PFAS (PFOS + PFOA)*	pH (Lab)	Turbidity
EQL	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.1	1
EPL 21054 Water Concentration Limits	10	2	0.13		2			6.5-8.5	25

Location ID	Sample ID	Sampled Date	Lab Report Number	0.04	0.02	0.04	<0.05	0.06	0.1	0.08	7.7	19
DP3	DP3	9/01/2024	1058178									
DP3	DP3	6/02/2024	1066335	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	7.7	5.6
DP3	DP3	21/02/2024	1071225	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	7.5	31
DP3	DP3	21/03/2024	1080627	<0.01	0.02	0.02	<0.05	0.04	0.04	0.02	8	22
DP3	DP3	10/04/2024	1086321	<0.01	<0.01	0.01	<0.05	0.01	0.01	0.01	8	2.1
DP3	DP3	17/05/2024	1098339	<0.01	0.02	0.02	<0.05	0.04	0.04	0.02	7.8	5.6
DP5	DP5	6/02/2024	1066335	0.01	<0.01	0.05	<0.05	0.05	0.06	0.06	7.3	4.6
DP7	DP7	14/10/2023	1034797	<0.01	0.02	0.08	<0.05	0.1	0.1	0.08	7.2	7.8
DP7	DP7	22/11/2023	1047515	<0.01	0.02	0.09	<0.05	0.11	0.11	0.09	8	22
DP7	DP7	6/12/2023	1051358	<0.01	0.01	0.09	<0.05	0.1	0.1	0.09	8.1	7.1
DP7	DP7	22/03/2024	1081148	<0.01	0.02	0.06	<0.05	0.08	0.08	0.06	7.5	15
DP7	DP7	10/04/2024	1086321	<0.01	<0.01	0.02	<0.05	0.02	0.02	0.02	7.8	76
DP7	DP7	7/05/2024	1094551	<0.01	<0.01	0.03	<0.05	0.03	0.03	0.03	7.2	38
DP10	DP10	6/02/2024	1066335	<0.01	0.01	0.09	<0.05	0.1	0.1	0.09	7.5	390
DP10	DP10	15/02/2024	1069060	<0.01	0.02	0.09	<0.05	0.11	0.11	0.09	7.6	18
DP10	DP10	21/02/2024	1071225	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	7.4	80
DP10	DP10	28/03/2024	1083178	0.01	0.03	0.12	<0.05	0.15	0.16	0.13	7.6	37
DP10	DP10	3/04/2024	1083739	<0.01	0.02	0.1	<0.05	0.12	0.12	0.1	7.4	30
DP10	DP10	7/05/2024	1094551	<0.01	0.02	0.02	<0.05	0.04	0.04	0.02	7.9	7.7