

Stormwater Monitoring Data – EPL 1967 EPL

Year: 2021 calendar year

Licensee Name and Address: Port of Newcastle Operations Pty Ltd; Newcastle Bulk Terminal, Heron Road Kooragang NSW 2304.

Location: Point 1 (Berth K2 Outlet)

Type of Monitoring: Discharge water quality monitoring.

Frequency required: Monthly during discharge with exceptions noted below table.

Notes: No limits are specified in EPL 1967.

EPL Link: [Link to EPL 1967](#) on EPA POEO Register

Monitoring location:



Figure: Location of EPL 1967 Point 1 (Google Maps, accessed 2021)

Analyte	Units	January 2021	February 2021	March 2021	April 2021	May 2021	June 2021
Date sampled	-	7/01/2021	2/02/2021	14/03/2021	10/04/2021	4/05/2021	
Date results received	-	25/02/2021	30/03/2021	14/05/2021	11/06/2021	9/07/2021	
Date published	-	19/04/2021	19/04/2021	18/05/2021	24/06/2021	13/07/2021	
pH	pH	7.19	5.7	9.03	8.34	6.7	
Aluminium (dissolved)	mg/L	0.03	0.02	0.18	0.04	<0.1	
Aluminium (total)	mg/L	0.42	0.68	0.24	0.24	0.44	
Ammonia	mg/L	69.5	12.7	544	228	188	
Arsenic ** (dissolved)	mg/L	0.005	0.012	0.006	0.005	0.011	
Arsenic ** (total)	mg/L	0.006	0.012	0.006	0.005	0.016	
Cadmium (dissolved)	mg/L	<0.0001	0.001	<0.0001	0.0009	<0.0001	
Cadmium (total)	mg/L	0.001	0.0033	0.0004	0.001	0.0018	
Lead (dissolved)	mg/L	<0.001	<0.001	<0.001	<0.001	<0.001	
Lead (total)	mg/L	0.003	0.003	<0.001	<0.001	0.002	
Mercury (dissolved)	mg/L	0.0003	0.0001	<0.0001	<0.0001	<0.0001	
Mercury (total)	mg/L	0.0002	0.0001	<0.0001	<0.0001	<0.0001	
Nitrate	mg/L	0.05	1.26	0.99	1.5	0.1	
Nitrite	mg/L	<0.05	0.14	0.45	13	0.12	
Total Nitrogen	mg/L	82.2	13.7	542	231	674	
Total Kjeldahl Nitrogen	mg/L	82.1	12.3	541	216	674	
Phosphate	mg/L	167	310	85.8	30	468	
Phosphorus (dissolved reactive)	mg/L	<0.05	101	22.7	5.18	148	
Phosphorus (total)	mg/L	54.4	101	28	9.79	153	
Sulfate	mg/L	58	643	74	1250	2110	
Sulfur	mg/L	70	710	100	1400	2420	
Sulfide (dissolved)	mg/L	2.5	<0.1	<0.1	<0.1	0.1	
Total Suspended Solids	mg/L	60	29	18	70	34	
Zinc (dissolved)	mg/L	0.049	2.74	0.023	0.089	<0.05	
Zinc (total)	mg/L	0.277	3.22	0.092	0.389	0.298	

* insufficient rainfall for sample collection

** only required to be monitored following Sulphate of Ammonia operation

Results are continued on next page.

Analyte	Units	July 2021	August 2021	Sept 2021	Oct 2021	Nov 2021	Dec 2021
Date sampled	-						
Date results received	-						
Date published	-						
pH	pH						
Aluminium (dissolved)	mg/L						
Aluminium (total)	mg/L						
Ammonia	mg/L						
Arsenic ** (dissolved)	mg/L						
Arsenic ** (total)	mg/L						
Cadmium (dissolved)	mg/L						
Cadmium (total)	mg/L						
Lead (dissolved)	mg/L						
Lead (total)	mg/L						
Mercury (dissolved)	mg/L						
Mercury (total)	mg/L						
Nitrate	mg/L						
Nitrite	mg/L						
Total Nitrogen	mg/L						
Total Kjeldahl Nitrogen	mg/L						
Phosphate	mg/L						
Phosphorus (dissolved reactive)	mg/L						
Phosphorus (total)	mg/L						
Sulfate	mg/L						
Sulfur	mg/L						
Sulfide (dissolved)	mg/L						
Total Suspended Solids	mg/L						
Zinc (dissolved)	mg/L						
Zinc (total)	mg/L						

* insufficient rainfall for sample collection

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