



PORT WARATAH COAL SERVICES  
**EPL MONITORING DATA**  
**KOORAGANG**  
**COAL TERMINAL**



PORT WARATAH  
COAL SERVICES

## CONTENTS

PREMISES DETAILS .....	3
AMBIENT DUST MONITORING – DEPOSITED DUST .....	4
AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER .....	7
DISCHARGE TO WATERS – OVERFLOW QUALITY.....	10
DATA CORRECTION LOG.....	23
SITE MAP AND MONITORING LOCATIONS .....	24

## PREMISES DETAILS

<b>Environment Protection Licence Number:</b>	1552
<b>Licensee's Name:</b>	Port Waratah Coal Services Limited
<b>Premises Name:</b>	Kooragang Coal Terminal
<b>Premises Address:</b>	Curlew Street, Kooragang Island NSW 2304
<b>Link to POEO Public Register:</b>	<a href="#">Click Here</a>
<b>Link to EPL 1552 on POEO Public Register:</b>	<a href="#">Click Here</a>

## AMBIENT DUST MONITORING – DEPOSITED DUST

Monitoring frequency for Deposited Dust Monitoring is monthly. **Note:** g/m<sup>2</sup>/month refers to 'grams per square metre per month'

On 22<sup>nd</sup> February 2016, the EPA approved an amendment to the Kooragang Coal Terminal Environment Protection Licence (EPL1552), removing the requirement for ambient air quality monitoring due to the commencement of the [Newcastle Local Air Quality Monitoring Network](#). Although Port Waratah is no longer obliged to publish ambient air quality data obtained after 22<sup>nd</sup> February 2016, for historical continuity and transparency of data for the public, ambient air quality data for the locations previously listed in EPL1552 will continue to be published.

Sample Period					Jan 2017	Feb 2017	Mar 2017	Apr 2017	May 2017	Jun 2017	Jul 2017	Aug 2017	Sep 2017	Oct 2017	Nov 2017	Dec 2017	
Sample Date					27/1/2017	27/2/2017	30/3/2017	27/4/2017	29/5/2017	28/6/2017	28/7/2017	28/8/2017	28/9/2017	27/10/2017	28/11/2017	28/12/2017	
Date Data Obtained					9/2/2017	14/3/2017	13/4/2017	15/5/2017	14/6/2017	19/7/2017	11/8/2017	13/9/2017	13/10/2017	15/11/2017	13/12/2017	12/1/2018	
Date Data Published					16/2/2016	16/3/2017	21/4/2017	19/5/2017	19/6/2017	2/8/2017	14/8/2017	20/9/2017	19/10/2017	16/11/2017	19/12/2017	22/1/2018	
EPA ID Number	PWCS ID	Location	Analyte/Pollutant	Unit of Measure													
N/A	DDG-K1	Stockton Centre	Combustible Matter	g/m <sup>2</sup> /month	0.4	0.3	0.2	0.3	0.4	0.2	0.4	0.3	0.4	0.4	0.2	0.4	
			Ash	g/m <sup>2</sup> /month	0.3	0.3	0.1	0.3	0.1	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.4
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.7	0.6	0.3	0.6	0.5	0.4	0.7	0.7	0.8	0.8	0.8	0.6	0.8
N/A	DDG-K8	Fern Bay	Combustible Matter	g/m <sup>2</sup> /month	0.4	0.4	0.3	0.5	0.2	0.4	0.5	1.6	0.5	0.4	0.3	1.9	
			Ash	g/m <sup>2</sup> /month	0.3	0.3	0.3	0.5	0.2	0.3	0.4	3.0	0.4	0.6	0.8	1.1	
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.7	0.7	0.6 <sup>A</sup>	1.0	0.4	0.7	0.9	4.6 <sup>B</sup>	0.9	1.0	1.1	3.0	

<sup>A</sup> March 2017 result for DDG-K8 was identified by the laboratory to have been contaminated with bird droppings

<sup>B</sup> August 2017 result for DDG-K8 contained a large proportion of sand

# EPL MONITORING DATA: KOORAGANG COAL TERMINAL

## AMBIENT DUST MONITORING – DEPOSITED DUST

Sample Period					Jan 2018	Feb 2018	Mar 2018	Apr 2018	May 2018	Jun 2018	Jul 2018	Aug 2018	Sep 2018	Oct 2018	Nov 2018	Dec 2018
Sample Date					29/1/2018	27/2/2018	27/3/2018	27/4/2018	29/5/2018	28/6/2018	27/7/2018	28/8/2018	27/9/2018	29/10/2018	29/11/2018	28/12/2018
Date Data Obtained					12/2/2018	15/3/2018	13/4/2018	15/5/2018	15/6/2018	16/7/2018	14/8/2018	14/9/2018	12/10/2018	12/11/2018	13/12/2018	31/12/2018
Date Data Published					22/2/2018	20/3/2018	19/4/2018	18/5/2018	22/6/2018	23/7/2018	21/8/2018	18/9/2018	22/10/2018	26/11/2018	19/12/2018	12/02/2019
EPA ID Number	PWCS ID	Location	Analyte/Pollutant	Unit of Measure												
N/A	DDG-K1	Stockton Centre	Combustible Matter	g/m <sup>2</sup> /month	0.3	0.4	0.6	0.6	0.4	0.2	0.1	0.4	0.2	0.5	0.6	0.4
			Ash	g/m <sup>2</sup> /month	0.4	0.5	0.6	0.4	0.2	0.2	0.3	0.5	0.3	0.3	0.3	0.8
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.7	0.9	1.2	1.0	0.6	0.4	0.4	0.9	0.5	0.8	0.9	1.2
N/A	DDG-K8	Fern Bay	Combustible Matter	g/m <sup>2</sup> /month	0.4	0.4	0.7	0.5	0.4	0.5	2.0	0.6	2.9	1.1	0.5	2.1
			Ash	g/m <sup>2</sup> /month	0.4	0.5	0.8	0.4	0.4	0.5	2.5	0.9	28.5	2.2	0.8	4.6
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.8	0.9	1.5	0.9	0.8	1.0	4.5 <sup>C</sup>	1.5	31.4 <sup>D</sup>	3.3	1.3	6.7

Sample Period					Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019	July 2019	Aug 2019	Sep 2019	Oct 2019	Nov 2019	Dec 2019
Sample Date					29/1/2019	27/2/2019	28/3/2019	29/04/2019	29/05/2019	27/06/2019	29/07/2019	29/08/2019	27/09/2019	30/10/2019	28/11/2019	30/12/2019
Date Data Obtained					15/2/2019	14/3/2019	12/4/2019	13/05/2019	13/06/2019	12/07/2019	13/08/2019	13/09/2019	16/10/2019	26/11/2019	17/12/2019	17/01/2020
Date Data Published					20/2/2019	26/3/2019	16/4/2019	14/05/2019	18/06/2019	17/07/2019	15/08/2019	19/09/2019	18/10/2019	26/11/2019	20/12/2019	30/01/2020
EPA ID Number	PWCS ID	Location	Analyte/Pollutant	Unit of Measure												
N/A	DDG-K1	Stockton Centre	Combustible Matter	g/m <sup>2</sup> /month	0.4	0.7	0.4	0.1	0.4	0.5	0.2	0.4	0.5	0.4	0.9	1.4
			Ash	g/m <sup>2</sup> /month	0.6	1.5	1.3	0.4	0.2	0.5	0.2	0.5	0.7	0.9	2.2	1.8
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	1.0	2.2	1.7	0.5	0.6	1.0	0.4	0.9	1.2	1.3	3.1	3.2
N/A	DDG-K8	Fern Bay	Combustible Matter	g/m <sup>2</sup> /month	0.4	0.7	0.4	0.3	0.6	0.6	0.4	0.8	0.5	0.5	0.8	0.5
			Ash	g/m <sup>2</sup> /month	1.4	1.2	1.0	0.5	0.4	0.8	0.4	0.6	1.0	1.0	1.9	1.2
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	1.8	1.9	1.4	0.8	1.0	1.4	0.8	1.4	1.5	1.5	2.7	1.7

<sup>C</sup> July 2018 result for DDG-K8 contained a large proportion of sand

<sup>D</sup> September 2018 result for DDG-K8 contained a significant volume of sand



# EPL MONITORING DATA: KOORAGANG COAL TERMINAL

## AMBIENT DUST MONITORING – DEPOSITED DUST

Sample Period					Jan 2020	Feb 2020	Mar 2020	Apr 2020	May 2020	Jun 2020	Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020
Sample Date					31/01/2020	29/02/2020	31/03/2020	29/04/2020	28/05/2020	29/06/2020	29/07/2020	28/08/2020	28/09/2020	30/10/2020	30/11/2020	30/12/2020
Date Data Obtained					19/02/2020	26/03/2020	20/04/2020	19/05/2020	19/06/2020	14/07/2020	17/08/2020	14/09/2020	16/10/2020	16/11/2020	16/12/2020	15/01/2021
Date Data Published					27/02/2020	26/03/2020	29/04/2020	20/05/2020	24/06/2020	23/07/2020	27/08/2020	07/09/2020	23/10/2020	04/12/2020	17/12/2020	21/01/2021
EPA ID Number	PWCS ID	Location	Analyte/Pollutant	Unit of Measure												
N/A	DDG-K1	Stockton Centre	Combustible Matter	g/m <sup>2</sup> /month	1.1	0.6	0.3	0.2	0.4	0.3	0.3	0.3	0.4	0.4	0.3	0.3
			Ash	g/m <sup>2</sup> /month	3.9	1.3	0.6	0.8	0.6	0.4	0.5	0.6	0.4	0.4	0.4	0.7
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	5.0	1.9	0.9	1.0	1.0	0.7	0.8	0.9	0.8	0.8	0.8	0.7
N/A	DDG-K8	Fern Bay	Combustible Matter	g/m <sup>2</sup> /month	0.8	0.5	0.3	0.2	0.3	0.3	0.2	0.3	0.3	0.4	0.3	0.3
			Ash	g/m <sup>2</sup> /month	3.5	1.0	0.7	0.7	0.6	0.4	0.4	0.6	0.3	0.5	0.5	0.7
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	4.3	1.5	1.0	0.9	0.9	0.7	0.6	0.9	0.6	0.9	0.8	1.0

Sample Period					Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	Jul 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021
Sample Date					29/01/2021	01/03/2021	31/03/2021	29/04/2021	31/05/2021	30/06/2021	29/07/2021	30/08/2021	29/09/2021	30/10/2021	29/11/2021	
Date Data Obtained					11/02/2021	15/03/2021	05/05/2021	17/05/2021	17/06/2021	14/07/2021	13/08/2021	15/09/2021	14/10/2021	15/11/2021	20/12/2021	
Date Data Published					17/02/2021	23/03/2021	13/05/2021	27/05/2021	01/07/2021	22/07/2021	26/08/2021	23/09/2021	21/10/2021	25/11/2021	30/12/2021	
EPA ID Number	PWCS ID	Location	Analyte/Pollutant	Unit of Measure												
N/A	DDG-K1	Stockton Centre	Combustible Matter	g/m <sup>2</sup> /month	0.1	0.7	0.5	0.1	0.2	0.4	0.3	0.1	0.4	1.6	0.3	
			Ash	g/m <sup>2</sup> /month	0.3	0.6	0.3	0.3	0.1	0.2	0.2	0.3	0.5	1.0	0.3	
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.4	1.3	0.8	0.4	0.3	0.6	0.5	0.4	0.9	2.6 <sup>E</sup>	0.6	
N/A	DDG-K8	Fern Bay	Combustible Matter	g/m <sup>2</sup> /month	0.3	0.5	0.3	0.3	0.1	0.2	0.2	0.2	0.5	0.2	0.3	
			Ash	g/m <sup>2</sup> /month	0.6	0.5	0.4	0.5	0.2	0.3	0.4	0.6	0.8	0.8	0.8	
			Total Insoluble Solids (Total Dust)	g/m <sup>2</sup> /month	0.9	1.0	0.7	0.8	0.3	0.5	0.6	0.8	1.3	1.0	1.1	

<sup>E</sup> October 2021 result for DDG-K1 was deemed contaminated due to a low insoluble solid to ash ratio and a high percentage composition of polysaccharide slime and Copper sludge

## AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER

### AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER

Monitoring frequency for High Volume Air Samplers is a 24hr period every six (6) days.

**Note 1:** EPA Point 15 (directional HVAS-TSP, Fern Bay) operates for a 24hr period every six days. During this 24hr period, the unit operates when wind direction is from a West-Northwest to West-Southwest range for more than two minutes. When triggered the unit operates for a minimum of 6 minutes. A reportable result is when there has been a cumulative run time of at least four hours in the 24hr period. Refer to condition M2.4 of EPL 1552 for details.

**Note 2:**  $\mu\text{g}/\text{m}^3$  refers to 'micrograms per cubic metre'

On 22<sup>nd</sup> February 2016, the EPA approved an amendment to the Kooragang Coal Terminal Environment Protection Licence (EPL1552), removing the requirement for ambient air quality monitoring due to the commencement of the [Newcastle Local Air Quality Monitoring Network](#).

Although Port Waratah is no longer obliged to publish ambient air quality data obtained after 22<sup>nd</sup> February 2016, for historical continuity and transparency of data for the public, Port Waratah will continue to voluntarily publish ambient air quality data for the locations previously listed in EPL1552.

EPA ID Number			N/A					N/A				
PWCS ID			HVAS-K2					HVAS-K4				
Location			Fern Bay					Fern Bay				
Analyte/Pollutant			Total Suspended Particulates					Total Suspended Particulates – Directional				
Unit of Measure			--	--	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	--	--	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Sample Period	Date Data Obtained	Date Data Published	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value
Jan 2017	9/2/2017	16/2/2017	0	5	38	54.4	76	0	0	--	--	--
Feb 2017	14/3/2017	16/3/2017	0	4	29	48.0	70	0	0	--	--	--
Mar 2017	13/4/2017	21/4/2017	0	6	37	40.5	45	0	0	--	--	--
Apr 2017	15/5/2017	19/5/2017	0	5	21	26.4	31	0	1	31	31.0	31
May 2017	14/6/2017	19/6/2017	0	5	24	32.2	46	0	1	43	43.0	43
Jun 2017	19/7/2017	2/8/2017	0	5	23	30.6	42	0	1	43	43.0	43
Jul 2017	11/8/2017	14/8/2017	0	5	26	31.6	38	0	1	57	57.0	57
Aug 2017	13/9/2017	20/9/2017	0	5	21	34.0	49	0	1	38	38.0	38
Sep 2017	13/10/2017	19/10/2017	0	5	33	44.4	53	0	0	--	--	--
Oct 2017	15/11/2017	16/11/2017	0	5	29	38.2	45	0	0	--	--	--
Nov 2017	13/12/2017	19/12/2017	0	5	28	43.2	64	0	0	--	--	--
Dec 2017	12/1/2018	22/1/2018	0	5	30	57.0	73	0	0	--	--	--
Jan 2018	12/2/2018	22/2/2018	0	6	26	53.3	69	0	0	--	--	--

EPL MONITORING DATA: KOORAGANG COAL TERMINAL  
**AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER**

EPA ID Number			N/A					N/A				
PWCS ID			HVAS-K2					HVAS-K4				
Location			Fern Bay					Fern Bay				
Analyte/Pollutant			Total Suspended Particulates					Total Suspended Particulates – Directional				
Unit of Measure			--	--	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	--	--	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Sample Period	Date Data Obtained	Date Data Published	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value
Feb 2018	15/3/2018	20/3/2018	0	4	21	49.8	92	0	2	20	28.0	36
Mar 2018	13/4/2018	19/4/2018	0	5	27	49.2	78	0	2	60	70.0	80
Apr 2018	15/5/2018	18/5/2018	0	5	24	39.8	77	0	0	--	--	--
May 2018	15/6/2018	22/6/2018	0	6	24	35.2	54	0	0	--	--	--
Jun 2018	16/7/2018	23/7/2018	0	4	18	25.6	32	0	2	41	53.5	66
Jul 2018	14/8/2018	21/8/2018	0	5	32	49.0	85	0	0	--	--	--
Aug 2018	14/9/2018	18/9/2018	0	5	30	46.2	61	0	0	--	--	--
Sep 2018	12/10/2018	22/10/2018	0	5	20	36.0	46	0	0	--	--	--
Oct 2018	12/11/2018	26/11/2018	0	5	35	40.2	55	0	0	--	--	--
Nov 2018	13/12/2018	19/12/2018	0	5	35	52	73	0	0	--	--	--
Dec 2018	31/12/2018	12/02/2019	0	5	17	54.6	82	0	0	--	--	--
Jan 2019	15/2/2019	20/2/2019	0	4	52	79.8	125	Unit decommissioned and placed out of service				
Feb 2019	14/3/2019	26/3/2019	0	5	49	76.6	134					
Mar 2019	12/4/2019	16/4/2019	0	5	28	42.2	49					
Apr 2019	13/04/2019	14/04/2019	0	5	35	54	82					
May 2019	13/06/2019	18/06/2019	0	5	24	36.4	47					
Jun 2019	12/07/2019	17/07/2019	0	5	21	38.2	50					
Jul 2019	13/08/2019	15/08/2019	0	6	20	35.2	55					
Aug 2019	13/09/2019	19/09/2019	0	4	47	56.0	71					
Sep 2019	16/09/2019	18/09/2019	0	6	24	42.2	62					
Oct 2019	26/11/2019	26/11/2019	0	5	31	56.8	86					
Nov 2019	17/12/2019	20/12/2019	0	5	27	91.8	132					
Dec 2019	17/01/2020	30/01/2020	0	5	66	103.2	154					
Jan 2020	19/02/2020	27/02/2020	0	5	38	75.6	110					
Feb 2020	26/03/2020	26/03/2020	0	5	47	59.8	86					
Mar 2020	20/04/2020	29/04/2020	0	5	30	50.8	104					
Apr 2020	19/05/2020	20/05/2020	0	5	23	52.8	118					



EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**AMBIENT DUST MONITORING – HIGH VOLUME AIR SAMPLER**

EPA ID Number			N/A					N/A				
PWCS ID			HVAS-K2					HVAS-K4				
Location			Fern Bay					Fern Bay				
Analyte/Pollutant			Total Suspended Particulates					Total Suspended Particulates – Directional				
Unit of Measure			--	--	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	--	--	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>
Sample Period	Date Data Obtained	Date Data Published	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value	No. Measurements Required	No. Measurements Recorded	Min Value	Mean Value	Max Value
May 2020	19/06/2020	24/06/2020	0	5	19	35.2	50					
Jun 2020	14/07/2020	23/07/2020	0	5	21	30.2	50					
Jul 2020	17/08/2020	27/08/2020	0	6	12	29.5	41					
Aug 2020	14/09/2020	17/09/2020	0	5	31	48.8	80					
Sep 2020	16/10/2020	23/10/2020	0	5	31	50.0	72					
Oct 2020	16/11/2020	04/12/2020	0	5	19	48.4	66					
Nov 2020	16/12/2020	17/12/2020	0	5	18	41.6	62					
Dec 2020	15/01/2021	21/01/2021	0	5	18	38.6	57					
Jan 2021	11/02/2021	17/02/2021	0	5	23	41.4	82					
Feb 2021	15/03/2021	23/03/2021	0	5	36	44.5	54					
Mar 2021	05/05/2021	13/05/2021	0	5	21	32.5	39					
Apr 2021	17/05/2021	27/05/2021	0	5	24	48.8	61					
May 2021	17/06/2021	01/07/2021	0	5	24	32.2	41					
Jun 2021	14/07/2021	22/07/2021	0	5	19	25.8	34					
Jul 2021	13/08/2021	26/08/2021	0	5	10	24.8	34					
Aug 2021	15/09/2021	23/09/2021	0	6	17	51.7	87					
Sep 2021	14/10/2021	21/10/2021	0	5	17	48.4	88					
Oct 2021	15/11/2021	25/11/2021	0	5	31	51.2	67					
Nov 2021	20/12/2021	30/12/2021	0	5	26	35.8	48					

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

Monitoring Frequency for overflow water quality monitoring is monthly during discharge.

**Note:** mg/L refers to ‘milligrams per litre’

EPA ID Number			16			17			18		
PWCS ID			K4 Lagoon			K5 Lagoon			K6 Lagoon		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Jan 2017	--	16/2/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2017	--	16/3/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2017	--	21/4/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2017	--	19/5/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2017	--	19/6/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2017	--	7/7/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2017	--	14/8/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2017	--	20/9/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2017	--	19/10/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2017	--	16/11/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2017	--	19/12/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2017	--	22/1/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2018	--	22/2/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2018	--	20/3/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2018	--	19/4/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2018	--	18/5/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2018	--	22/6/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2018	--	23/7/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2018	--	21/8/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2018	--	18/9/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2018	--	22/10/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2018	--	26/11/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2018	--	19/12/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2018	--	12/02/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			16			17			18		
PWCS ID			K4 Lagoon			K5 Lagoon			K6 Lagoon		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Jan 2019	--	20/2/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2019	--	26/3/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2019	--	16/4/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2019	--	14/05/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2019	--	18/06/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2019	--	17/07/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2019	--	15/08/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2019	--	19/09/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2019	--	18/10/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2019	--	26/11/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2019	--	20/12/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2019	--	30/01/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2020	--	27/02/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2020	--	26/03/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2020	--	29/04/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2020	--	20/05/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2020	--	24/06/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2020	--	23/07/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
26 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			8	7.73	998	6	7.36	532
27 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			8	7.80	711	5	7.33	602
Aug 2020	--	17/09/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2020	--	23/10/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2020	--	04/12/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2020	--	17/12/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2020	--	21/01/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2021	--	17/02/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2021	--	23/03/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2021	--	05/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2021	--	17/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

EPA ID Number			16			17			18		
PWCS ID			K4 Lagoon			K5 Lagoon			K6 Lagoon		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal Wharf		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
May 2021	--	01/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2021	--	22/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2021	--	26/08/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2021	--	23/09/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2021	--	21/10/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2021	--	25/11/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2021	--	30/12/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			19			20			21		
PWCS ID			K7 Lagoon			Detention Pond B			Settling Lagoon I		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Jan 2017	--	16/2/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2017	--	16/3/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2017	--	21/4/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
5 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.63	20	No Discharge/Overflow to Waters		
6 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.51	38	No Discharge/Overflow to Waters		
12 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.62	47	No Discharge/Overflow to Waters		
13 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.63	43	No Discharge/Overflow to Waters		
14 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.51	30	No Discharge/Overflow to Waters		
15 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.58	27	No Discharge/Overflow to Waters		
16 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	7.38	12	No Discharge/Overflow to Waters		
May 2017	--	19/6/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
9 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			4	7.71	64	No Discharge/Overflow to Waters		
10 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.78	66	No Discharge/Overflow to Waters		
11 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.72	48	No Discharge/Overflow to Waters		
12 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.63	14	No Discharge/Overflow to Waters		
13 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.69	20	No Discharge/Overflow to Waters		
14 Jun 2017	23/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.65	28	No Discharge/Overflow to Waters		
15 Jun 2017	23/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.65	23	No Discharge/Overflow to Waters		
16 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.49	14	No Discharge/Overflow to Waters		
19 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.62	10	No Discharge/Overflow to Waters		
Jul 2017	--	14/8/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2017	--	20/9/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2017	--	19/10/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2017	--	16/11/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2017	--	19/12/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2017	--	22/1/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2018	--	22/2/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2018	--	20/3/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2018	--	19/4/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2018	--	18/5/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		



EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			19			20			21		
PWCS ID			K7 Lagoon			Detention Pond B			Settling Lagoon I		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
May 2018	--	22/6/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
19 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.71	33	No Discharge/Overflow to Waters		
20 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.84	90	No Discharge/Overflow to Waters		
21 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.78	95	No Discharge/Overflow to Waters		
22 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.46	74	No Discharge/Overflow to Waters		
23 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.73	16	No Discharge/Overflow to Waters		
Jul 2018	--	21/8/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2018	--	18/9/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2018	--	22/10/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2018	--	26/11/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2018	--	19/12/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2018	--	12/02/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2019	--	20/2/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2019	--	26/3/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2019	--	16/4/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2019	--	14/05/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2019	--	18/06/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2019	--	17/07/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2019	--	15/08/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2019	--	19/09/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2019	--	18/10/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2019	--	26/11/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2019	--	20/12/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2019	--	30/01/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2020	--	27/02/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2020	--	26/03/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2020	--	29/04/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2020	--	20/05/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2020	--	24/06/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2020	--	23/07/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			19			20			21		
PWCS ID			K7 Lagoon			Detention Pond B			Settling Lagoon I		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
26 Jul 2020	17/08/2020	27/08/2020	6	7.35	996	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
27 Jul 2020	17/08/2020	27/08/2020	9	7.44	588	9	7.73	339	No Discharge/Overflow to Waters		
28 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			16	7.75	176	No Discharge/Overflow to Waters		
29 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			-	7.76	166	No Discharge/Overflow to Waters		
30 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			6	7.63	69	No Discharge/Overflow to Waters		
31 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.05	87	No Discharge/Overflow to Waters		
Aug 2020	--	17/09/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2020	--	23/10/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
30 Oct 2020	16/11/2020	04/12/2020	No Discharge/Overflow to Waters			<5	7.83	291	No Discharge/Overflow to Waters		
31 Oct 2020	16/11/2020	04/12/2020	No Discharge/Overflow to Waters			<5	7.74	304	No Discharge/Overflow to Waters		
1 Nov 2020	16/11/2020	04/12/2020	No Discharge/Overflow to Waters			<5	7.72	352	No Discharge/Overflow to Waters		
2 Nov 2020	16/11/2020	04/12/2020	No Discharge/Overflow to Waters			<5	7.75	372	No Discharge/Overflow to Waters		
3 Nov 2020	16/11/2020	04/12/2020	No Discharge/Overflow to Waters			7	7.63	342	No Discharge/Overflow to Waters		
6 Nov 2020	16/12/2020	17/12/2020	No Discharge/Overflow to Waters			<5	7.55	324	No Discharge/Overflow to Waters		
7 Nov 2020	16/12/2020	17/12/2020	No Discharge/Overflow to Waters			<5	7.87	344	No Discharge/Overflow to Waters		
Dec 2020	--	21/01/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2021	--	17/02/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2021	--	23/03/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
19 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.66	115	No Discharge/Overflow to Waters		
20 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.72	119	No Discharge/Overflow to Waters		
21 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.5	99	No Discharge/Overflow to Waters		
22 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.60	92	No Discharge/Overflow to Waters		
23 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.59	59	No Discharge/Overflow to Waters		
24 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<2	7.16	280	No Discharge/Overflow to Waters		
Apr 2021	--	27/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2021	--	01/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2021	--	22/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2021	--	26/08/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2021	--	23/09/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2021	--	21/10/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

EPA ID Number			19			20			21		
PWCS ID			K7 Lagoon			Detention Pond B			Settling Lagoon I		
Location			Kooragang Coal Terminal Wharf			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Oct 2021	--	25/11/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
26 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.70	32	No Discharge/Overflow to Waters		
27 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.46	56	No Discharge/Overflow to Waters		
28 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.75	58	No Discharge/Overflow to Waters		
29 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.94	28	No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			22			23			24		
PWCS ID			Clarified Lagoon 1			Detention Pond D			Settling Lagoon 2		
Location			Kooragang Coal Terminal			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Jan 2017	--	16/2/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2017	--	16/3/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2017	--	21/4/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
5 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	8.21	13	No Discharge/Overflow to Waters		
6 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	8.22	33	No Discharge/Overflow to Waters		
7 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	8.26	17	No Discharge/Overflow to Waters		
8 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	8.21	14	No Discharge/Overflow to Waters		
10 Apr 2017	15/5/2017	19/5/2017	No Discharge/Overflow to Waters			<2	8.23	10	No Discharge/Overflow to Waters		
May 2017	--	19/6/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
9 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.85	112	No Discharge/Overflow to Waters		
10 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.96	58	No Discharge/Overflow to Waters		
11 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.93	66	No Discharge/Overflow to Waters		
12 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	7.97	10	No Discharge/Overflow to Waters		
13 Jun 2017	21/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.02	8	No Discharge/Overflow to Waters		
14 Jun 2017	23/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.04	<5	No Discharge/Overflow to Waters		
15 Jun 2017	23/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.14	7	No Discharge/Overflow to Waters		
16 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.03	6	No Discharge/Overflow to Waters		
17 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.08	10	No Discharge/Overflow to Waters		
18 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.10	10	No Discharge/Overflow to Waters		
19 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.18	10	No Discharge/Overflow to Waters		
20 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.13	<5	No Discharge/Overflow to Waters		
21 Jun 2017	27/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.14	<5	No Discharge/Overflow to Waters		
22 Jun 2017	28/6/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.04	<5	No Discharge/Overflow to Waters		
23 Jun 2017	3/7/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.16	16	No Discharge/Overflow to Waters		
24 Jun 2017	3/7/2017	07/07/17	No Discharge/Overflow to Waters			<2	8.16	<5	No Discharge/Overflow to Waters		
Jul 2017	--	14/8/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2017	--	20/9/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2017	--	19/10/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2017	--	16/11/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2017	--	19/12/2017	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			22			23			24		
PWCS ID			Clarified Lagoon 1			Detention Pond D			Settling Lagoon 2		
Location			Kooragang Coal Terminal			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Dec 2017	--	22/1/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2018	--	22/2/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2018	--	20/3/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2018	--	19/4/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2018	--	18/5/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2018	--	22/6/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
19 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	8.08	17	No Discharge/Overflow to Waters		
20 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	8.08	94	No Discharge/Overflow to Waters		
21 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	8.03	39	No Discharge/Overflow to Waters		
22 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	7.99	23	No Discharge/Overflow to Waters		
23 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	8.07	<5	No Discharge/Overflow to Waters		
24 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			2	8.09	<5	No Discharge/Overflow to Waters		
25 Jun 2018	16/7/2018	23/7/2018	No Discharge/Overflow to Waters			<2	8.11	8	No Discharge/Overflow to Waters		
Jul 2018	--	21/8/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2018	--	18/9/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2018	--	22/10/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2018	--	26/11/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2018	--	19/12/2018	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2018	--	12/02/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2019	--	20/02/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2019	--	26/3/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2019	--	16/4/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2019	--	14/05/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2019	--	18/06/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2019	--	17/07/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2019	--	15/08/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2019	--	19/09/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2019	--	18/10/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2019	--	26/11/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2019	--	20/12/2019	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		



EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			22			23			24		
PWCS ID			Clarified Lagoon 1			Detention Pond D			Settling Lagoon 2		
Location			Kooragang Coal Terminal			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Dec 2019	--	30/01/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2020	--	27/02/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2020	--	26/03/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Mar 2020	--	29/04/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Apr 2020	--	20/05/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2020	--	24/06/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2020	--	23/07/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
28 Jul 2020	17/08/2020	28/08/2020	No Discharge/Overflow to Waters			7	7.60	566	No Discharge/Overflow to Waters		
29 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.07	325	No Discharge/Overflow to Waters		
30 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.06	106	No Discharge/Overflow to Waters		
31 Jul 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	7.74	86	No Discharge/Overflow to Waters		
1 Aug 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.07	38	No Discharge/Overflow to Waters		
2 Aug 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.12	32	No Discharge/Overflow to Waters		
3 Aug 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.14	23	No Discharge/Overflow to Waters		
4 Aug 2020	17/08/2020	27/08/2020	No Discharge/Overflow to Waters			<5	8.18	34	No Discharge/Overflow to Waters		
Sep 2020	--	23/10/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2020	--	04/12/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Nov 2020	--	17/12/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2020	--	21/01/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2021	--	17/02/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2021	--	23/03/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
20 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<5	8.02	197	No Discharge/Overflow to Waters		
21 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<5	7.98	134	No Discharge/Overflow to Waters		
22 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<5	7.92	92	No Discharge/Overflow to Waters		
23 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			<5	7.97	72	No Discharge/Overflow to Waters		
Apr 2021	--	27/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2021	--	01/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2021	--	22/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2021	--	23/09/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2021	--	21/10/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

**DISCHARGE TO WATERS – OVERFLOW QUALITY**

EPA ID Number			22			23			24		
PWCS ID			Clarified Lagoon 1			Detention Pond D			Settling Lagoon 2		
Location			Kooragang Coal Terminal			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Oct 2021	--	25/11/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
26 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	8.10	137	No Discharge/Overflow to Waters		
27 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.78	135	No Discharge/Overflow to Waters		
28 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	7.88	112	No Discharge/Overflow to Waters		
29 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			<5	8.16	80	No Discharge/Overflow to Waters		

EPL MONITORING DATA: KOORAGANG COAL TERMINAL

DISCHARGE TO WATERS – OVERFLOW QUALITY

EPA ID Number			25			26			27		
PWCS ID			Clarified Lagoon 2			EER23 Pump Well			Detention Pond 1		
Location			Kooragang Coal Terminal			Kooragang Coal Terminal			Kooragang Coal Terminal		
Analyte/Pollutant			Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids	Oil and Grease	pH	Total Suspended Solids
Unit of Measure			mg/L	pH	mg/L	mg/L	pH	mg/L	mg/L	pH	mg/L
EPL Limit			--	--	--	--	--	--	--	--	--
Sample Date	Date Data Obtained	Date Data Published									
Nov 2020	--	17/12/2020	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Dec 2020	--	21/01/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jan 2021	--	17/02/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Feb 2021	--	23/03/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
21 Mar 2021	05/05/2021	13/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			<5	7.68	55
Apr 2021	--	27/05/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
May 2021	--	01/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jun 2021	--	22/07/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Jul 2021	--	26/08/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Aug 2021	--	23/09/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Sep 2021	--	21/10/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
Oct 2021	--	25/11/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			No Discharge/Overflow to Waters		
12 Nov 2021	20/12/2021	30/12/2021	No Discharge/Overflow to Waters			No Discharge/Overflow to Waters			<5	7.55	<5

EPL MONITORING DATA: KOORAGANG COAL TERMINAL  
**DISCHARGE TO WATERS – OVERFLOW QUALITY**

EPA ID Number		28		
PWCS ID		Detention Pond 2		
Location		Kooragang Coal Terminal		
Analyte/Pollutant		Oil and Grease	pH	Total Suspended Solids
Unit of Measure		mg/L	pH	mg/L
EPL Limit		--	--	--
Sample Date	Date Data Obtained	Date Data Published		
Nov 2020	--	17/12/2020	No Discharge/Overflow to Waters	
Dec 2020	--	21/01/2021	No Discharge/Overflow to Waters	
Jan 2021	--	17/02/2021	No Discharge/Overflow to Waters	
Feb 2021	--	23/03/2021	No Discharge/Overflow to Waters	
Mar 2021	--	13/05/2021	No Discharge/Overflow to Waters	
Apr 2021	--	27/05/2021	No Discharge/Overflow to Waters	
May 2021	--	01/07/2021	No Discharge/Overflow to Waters	
Jun 2021	--	22/07/2021	No Discharge/Overflow to Waters	
Jul 2021	--	26/08/2021	No Discharge/Overflow to Waters	
Aug 2021	--	23/09/2021	No Discharge/Overflow to Waters	
Sep 2021	--	21/10/2021	No Discharge/Overflow to Waters	
Oct 2021	--	25/11/2021	No Discharge/Overflow to Waters	
Nov 2021	--	30/12/2021	No Discharge/Overflow to Waters	

**DATA CORRECTION LOG**

DATA CORRECTION LOG

EPA ID No.	Analyte/ Pollutant	Sample Date	Original Data	Corrected Data	Date Corrected	Date Originally Published	Reason for Correction



**SITE MAP AND MONITORING LOCATIONS**

SITE MAP AND MONITORING LOCATIONS



**Figure 1:** Environment Protection Licence 1552 Monitoring Locations