



## Orica Kooragang Island Monitoring Points 23-24

### Details of Licence Conditions

EPA Licence No: 828

Link to full license on EPA website: <http://www.epa.nsw.gov.au/prpoeoapp/Detail.aspx?instid=828&id=828&option=licence&searchrange=licence&range=POEO licence&prp=no&status=Issued>

Licensee Name: ORICA AUSTRALIA PTY LTD

Licensee Address: 15 Greenleaf Rd, KOORAGANG NSW 2304

Location of Monitoring Points (See licence reference P1.3): [http://www.orica.com/images/UserUploadedImages/495/2013\\_Orica-KI\\_monitoring\\_locations.jpg](http://www.orica.com/images/UserUploadedImages/495/2013_Orica-KI_monitoring_locations.jpg)

Concentration Limit: See licence L3.6

Monthly Summary: March 2021 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	8/04/21	Ammonia	mg/L	Daily	31	20	132			NA	
		8/04/21	Arsenic	mg/L	Daily	31	0.009	0.018		0.05	No	
		8/04/21	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.011	0.05	0.2	No	
		8/04/21	Nitrogen (Total)	mg/L	Daily	31	41	325	1500	2000	No	
		8/04/21	Oil and Grease	mg/L	Twice per Week	9	0	0.3		10	No	
		8/04/21	pH	pH	Continuous	31	7.2	9.1		6.2-9.5	No	
		8/04/21	Temperature	Degrees Celsius	Continuous	31	24.9	40.3		43	No	
		8/04/21	Total suspended solids	mg/L	Daily	31	4	28		50	No	
		8/04/21	Zinc	mg/L	Daily	31	0.041	0.65		5	No	
		8/04/21	Flow	kL/day	Daily	31	2009	3861		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: February 2021 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	10/03/21	Ammonia	mg/L	Daily	28	21	35			NA	
		10/03/21	Arsenic	mg/L	Daily	28	0.009	0.018		0.05	No	
		10/03/21	Chromium (hexavalent)	mg/L	Daily	28	0.001	0.011	0.05	0.2	No	
		10/03/21	Nitrogen (Total)	mg/L	Daily	28	41	325	1500	2000	No	
		10/03/21	Oil and Grease	mg/L	Twice per Week	10	0.1	0.2		10	No	
		10/03/21	pH	pH	Continuous	28	6.0	8.8		6.2-9.5	No	
		10/03/21	Temperature	Degrees Celsius	Continuous	28	21.8	40.8		43	No	
		10/03/21	Total suspended solids	mg/L	Daily	28	4	28		50	No	
		10/03/21	Zinc	mg/L	Daily	28	0.041	0.65		5	No	
		10/03/21	Flow	kL/day	Daily	28	2067	3386		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: January 2021 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	10/02/21	Ammonia	mg/L	Daily	31	40	148			NA	
		10/02/21	Arsenic	mg/L	Daily	31	0.007	0.030		0.05	No	
		10/02/21	Chromium (hexavalent)	mg/L	Daily	31	0.002	0.031	0.05	0.2	No	
		10/02/21	Nitrogen (Total)	mg/L	Daily	31	80	268	1500	2000	No	
		10/02/21	Oil and Grease	mg/L	Twice per Week	10	1	0.2		10	No	
		10/02/21	pH	pH	Continuous	31	6.7	9.0		6.2-9.5	No	
		10/02/21	Temperature	Degrees Celsius	Continuous	31	28.4	41.1		43	No	
		10/02/21	Total suspended solids	mg/L	Daily	31	3	26		50	No	
		10/02/21	Zinc	mg/L	Daily	31	0.008	0.26		5	No	
		10/02/21	Flow	kL/day	Daily	31	2225	3386		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: December 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	11/01/21	Ammonia	mg/L	Daily	31	20	132			NA	
		11/01/21	Arsenic	mg/L	Daily	31	0.009	0.018		0.05	No	
		11/01/21	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.011	0.05	0.2	No	
		11/01/21	Nitrogen (Total)	mg/L	Daily	31	41	325	1500	2000	No	
		11/01/21	Oil and Grease	mg/L	Twice per Week	10	0	0.4		10	No	
		11/01/21	pH	pH	Continuous	31	6.8	8.9		6.2-9.5	No	
		11/01/21	Temperature	Degrees Celsius	Continuous	31	26.8	37.7		43	No	
		11/01/21	Total suspended solids	mg/L	Daily	31	4	28		50	No	
		11/01/21	Zinc	mg/L	Daily	31	0.041	0.65		5	No	
		38		11/01/21	Flow	kL/day	Daily	31	1543	2928		4500



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Concentration Limit: See licence L3.6

Monthly Summary: November 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	10/12/20	Ammonia	mg/L	Daily	30	17	172			NA	
		10/12/20	Arsenic	mg/L	Daily	30	0.010	0.018		0.05	No	
		10/12/20	Chromium (hexavalent)	mg/L	Daily	30	0.001	0.015	0.05	0.2	No	
		10/12/20	Nitrogen (Total)	mg/L	Daily	30	76	494	1500	2000	No	
		10/12/20	Oil and Grease	mg/L	Twice per Week	9	0	0.3		10	No	
		10/12/20	pH	pH	Continuous	30	6.4	8.8		6.2-9.5	No	
		10/12/20	Temperature	Degrees Celsius	Continuous	30	22.9	38.7		43	No	
		10/12/20	Total suspended solids	mg/L	Daily	30	4	27		50	No	
		10/12/20	Zinc	mg/L	Daily	30	0.036	0.23		5	No	
		10/12/20	Flow	kL/day	Daily	30	1447	3139		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: October 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	12/11/20	Ammonia	mg/L	Daily	31	99	280			NA	
		12/11/20	Arsenic	mg/L	Daily	31	0.004	0.033		0.05	No	
		12/11/20	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.024	0.05	0.2	No	
		12/11/20	Nitrogen (Total)	mg/L	Daily	31	178	595	1500	2000	No	
		12/11/20	Oil and Grease	mg/L	Twice per Week	9	0	0.4		10	No	
		12/11/20	pH	pH	Continuous	31	6.4	8.7		6.2-9.5	No	
		12/11/20	Temperature	Degrees Celsius	Continuous	31	18.4	36.8		43	No	
		12/11/20	Total suspended solids	mg/L	Daily	31	1	34		50	No	
		12/11/20	Zinc	mg/L	Daily	31	0.035	0.52		5	No	
		12/11/20	Flow	kL/day	Daily	31	1152	3236		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: September 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	8/10/20	Ammonia	mg/L	Daily	30	34	130			NA	
		8/10/20	Arsenic	mg/L	Daily	30	0.004	0.011		0.050	No	
		8/10/20	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.026	0.05	0.2	No	
		8/10/20	Nitrogen (Total)	mg/L	Daily	30	70	247	1500	2000	No	
		8/10/20	Oil and Grease	mg/L	Twice per Week	8	0	0.2		10	No	
		8/10/20	pH	pH	Continuous	30	7.1	9.0		6.2-9.5	No	
		8/10/20	Temperature	Degrees Celsius	Continuous	30	24.9	33.2		43	No	
		8/10/20	Total suspended solids	mg/L	Daily	30	2	20		50	No	
		8/10/20	Zinc	mg/L	Daily	30	0.032	0.10		5	No	
		8/10/20	Flow	kL/day	Daily	30	1762	3738		4500	No	

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Concentration Limit: See licence L3.6

Monthly Summary: August 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	7/09/20	Ammonia	mg/L	Daily	27	18	124			NA	Monitoring began on 5/08/2020
		7/09/20	Arsenic	mg/L	Daily	31	0.005	0.030		0.05	No	
		7/09/20	Chromium (hexavalent)	mg/L	Daily	31	0.001	0.040	0.05	0.2	No	
		7/09/20	Nitrogen (Total)	mg/L	Daily	31	35	229	1500	2000	No	
		7/09/20	Oil and Grease	mg/L	Twice per Week	9	0	0.1		10	No	
		7/09/20	pH	pH	Continuous	31	6.4	9.0		6.2-9.5	No	
		7/09/20	Temperature	Degrees Celsius	Continuous	31	23.7	32.6		43	No	
		7/09/20	Total suspended solids	mg/L	Daily	31	1	26		50	No	
		7/09/20	Zinc	mg/L	Daily	31	0.006	0.10		5	No	
		7/09/20	Flow	kL/day	Daily	31	2967	3755		4500	No	





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Concentration Limit: See licence L3.6

Monthly Summary: July 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	12/08/20	Arsenic	mg/L	Daily	31	0.006	0.016		0.05	No	
		12/08/20	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.020	0.05	0.2	No	
		12/08/20	Nitrogen (Total)	mg/L	Daily	31	83	367	1500	2000	No	
		12/08/20	Oil and Grease	mg/L	Twice per Week	9	0	0.6		10	No	
		12/08/20	pH	pH	Continuous	31	6.9	8.9		6.2-9.5	No	
		12/08/20	Temperature	Degrees Celsius	Continuous	31	15.3	33.1		43	No	
		12/08/20	Total suspended solids	mg/L	Daily	31	1	27		50	No	
		12/08/20	Zinc	mg/L	Daily	31	0.027	0.24		5	No	
		12/08/20	Flow	kL/day	Daily	31	1860	4304		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: June 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	14/07/20	Arsenic	mg/L	Daily	30	0.007	0.018		0.05	No	
		14/07/20	Chromium (hexavalent)	mg/L	Daily	30	0.001	0.077	0.05	0.2	No	
		14/07/20	Nitrogen (Total)	mg/L	Daily	30	99	265	1500	2000	No	
		14/07/20	Oil and Grease	mg/L	Twice per Week	8	0.1	0.4		10	No	
		14/07/20	pH	pH	Continuous	30	7.7	9.0		6.2-9.5	No	
		14/07/20	Temperature	Degrees Celsius	Continuous	30	29.7	33.3		43	No	
		14/07/20	Total suspended solids	mg/L	Daily	30	1	24		50	No	
		14/07/20	Zinc	mg/L	Daily	30	0.019	0.13		5	No	
		14/07/20	Flow	kL/day	Daily	30	2290	3190		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: May 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	18/06/20	Arsenic	mg/L	Daily	31	0.010	0.025		0.05	No	
		18/06/20	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.032	0.05	0.2	No	
		18/06/20	Nitrogen (Total)	mg/L	Daily	31	68	315	1500	2000	No	
		18/06/20	Oil and Grease	mg/L	Twice per Week	9	0.1	1.5		10	No	
		18/06/20	pH	pH	Continuous	31	6.8	9.2		6.2-9.5	No	
		18/06/20	Temperature	Degrees Celsius	Continuous	31	23.5	38.0		43	No	
		18/06/20	Total suspended solids	mg/L	Daily	31	1	15		50	No	
		18/06/20	Zinc	mg/L	Daily	31	0.000	0.17		5	No	
		18/06/20	Flow	kL/day	Daily	31	2084	3751		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: April 2020 Effluent Discharge - Hunter River

Monitoring Point	Location of Monitoring Point	Date Published	Pollutant	Units of Measure	Monitoring Frequency Required by Licence	No. of Times measured during month	Min. Value	Max. Value	90 percentile Licence Limit	100 percentile Licence Limit	Exceedence ? (Yes/No)	Comments
23	Effluent Discharge Point	12/05/20	Arsenic	mg/L	Daily	30	0.010	0.019		0.05	No	
		12/05/20	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.013	0.05	0.2	No	
		12/05/20	Nitrogen (Total)	mg/L	Daily	30	79	221	1500	2000	No	
		12/05/20	Oil and Grease	mg/L	Twice per Week	9	0.1	0.2		10	No	
		12/05/20	pH	pH	Continuous	30	6.6	9.0		6.2-9.5	No	
		12/05/20	Temperature	Degrees Celsius	Continuous	30	17.9	41.5		43	No	
		12/05/20	Total suspended solids	mg/L	Daily	30	2	24		50	No	
		12/05/20	Zinc	mg/L	Daily	30	0.002	0.10		5	No	
		12/05/20	Flow	kL/day	Daily	30	1621	2554		4500	No	