



Orica Kooragang Island Monitoring Points 38-39

Details of Licence Conditions

EPA Licence No: 828

Link to full licence 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: 75 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

Concentration Limit: See licence L3.6

Monthly Summary: March 2023 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
39	Effluent Discharge Point	4/04/23	Ammonia	mg/L	Daily	30	12	21			N/A	
		4/04/23	Arsenic	mg/L	Daily	30	0.009	0.022		0.05	No	
		4/04/23	Chromium (hexavalent)	mg/L	Daily	30	0.002	0.015	0.05	0.2	No	
		4/04/23	Nitrogen (Total)	mg/L	Daily	30	37	285	1500	2000	No	
		4/04/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		4/04/23	pH	pH	Continuous	Continuous	6.18	8.94		6.2-9.5	No	
		4/04/23	Temperature	Degrees Celsius	Continuous	Continuous	22.1	38.65		43	No	
		4/04/23	Total suspended solids	mg/L	Daily	30	6	21		50	No	
		4/04/23	Zinc	mg/L	Daily	30	0.163	0.408		5	No	
		4/04/23	Flow	kL/day	Daily	30	1933.7	3461.9		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: February 2023 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
39	Effluent Discharge Point	17/03/23	Ammonia	mg/L	Daily	30	18	196			N/A	
		17/03/23	Arsenic	mg/L	Daily	30	0.006	0.021		0.05	No	
		17/03/23	Chromium (hexavalent)	mg/L	Daily	30	0.003	0.023	0.05	0.2	No	
		17/03/23	Nitrogen (Total)	mg/L	Daily	30	42	364	1500	2000	No	
		17/03/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		17/03/23	pH	pH	Continuous	Continuous	6.93	8.86		6.2-9.5	No	
		17/03/23	Temperature	Degrees Celsius	Continuous	Continuous	28.15	38.17		43	No	
		17/03/23	Total suspended solids	mg/L	Daily	30	5	22		50	No	
		17/03/23	Zinc	mg/L	Daily	30	0.201	0.414		5	No	
		17/03/23	Flow	kL/day	Daily	30	2434.3	3782.3		4500	No	



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Monthly Summary: January 2023
 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		
39	Effluent Discharge Point	16/02/23	Ammonia	mg/L	Daily	30	22	115			N/A			
		16/02/23	Arsenic	mg/L	Daily	30	0.005	0.022		0.05	No			
		16/02/23	Chromium (hexavalent)	mg/L	Daily	30	0	0.025	0.05	0.2	No			
		16/02/23	Nitrogen (Total)	mg/L	Daily	30	60	262	1500	2000	No			
		16/02/23	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No			
		16/02/23	pH	pH	Continuous	Continuous	6.9	8.85		6.2-9.5	No			
		16/02/23	Temperature	Degrees Celsius	Continuous	Continuous	27.66	38.4		43	No			
		16/02/23	Total suspended solids	mg/L	Daily	30	5	23		50	No			
		16/02/23	Zinc	mg/L	Daily	30	0.181	0.368		5	No			
		16/02/23	Flow	kL/day	Daily	30	1965.7	3512		4500	No			
		38		16/02/23	Zinc	mg/L	Daily	30	0.181	0.368		5	No	
				16/02/23	Flow	kL/day	Daily	30	1965.7	3512		4500	No	



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Monthly Summary: December 2022 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
39	Effluent Discharge Point	15/12/22	Ammonia	mg/L	Daily	30	14	74			N/A	
		15/12/22	Arsenic	mg/L	Daily	30	0.011	0.02		0.05	No	
		15/12/22	Chromium (hexavalent)	mg/L	Daily	30	0	0.021	0.05	0.2	No	
		15/12/22	Nitrogen (Total)	mg/L	Daily	30	35	151	1500	2000	No	
		15/12/22	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		15/12/22	pH	pH	Continuous	Continuous	7.07	8.85		6.2-9.5	No	
		15/12/22	Temperature	Degrees Celsius	Continuous	Continuous	30.75	41.75		43	No	
		15/12/22	Total suspended solids	mg/L	Daily	30	6	14		50	No	
		15/12/22	Zinc	mg/L	Daily	30	0.161	0.335		5	No	
		15/12/22	Flow	kL/day	Daily	30	75	3369.7		4500	No	



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 Concentration Limit: See licence L3.6

Monthly Summary: November 2022
 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
39	Effluent Discharge Point	15/12/22	Ammonia	mg/L	Daily	30	22	105			N/A	
		15/12/22	Arsenic	mg/L	Daily	30	0.009	0.023		0.05	No	
		15/12/22	Chromium (hexavalent)	mg/L	Daily	30	0.001	0.015	0.05	0.2	No	
		15/12/22	Nitrogen (Total)	mg/L	Daily	30	57	210	1500	2000	No	
		15/12/22	Oil and Grease	mg/L	Twice per Week	8	1.6	1.6		10	No	
		15/12/22	pH	pH	Continuous	Continuous	6.64	9.42		6.2-9.5	No	
		15/12/22	Temperature	Degrees Celsius	Continuous	Continuous	21.88	41.99		43	No	
		15/12/22	Total suspended solids	mg/L	Daily	30	6	21		50	No	
		15/12/22	Zinc	mg/L	Daily	30	0.096	0.434		5	No	
		15/12/22	Flow	kL/day	Daily	30	2082.3	3343		4500	No	



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Monthly Summary: October 2022 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	
39	Effluent Discharge Point	14/11/22	Ammonia	mg/L	Daily	30	12	133			N/A		
		14/11/22	Arsenic	mg/L	Daily	30	0.008	0.022		0.05	No		
		14/11/22	Chromium (hexavalent)	mg/L	Daily	30	0.001	0.037	0.05	0.2	No		
		14/11/22	Nitrogen (Total)	mg/L	Daily	30	43	450	1500	2000	No		
		14/11/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No		
		14/11/22	pH	pH	Continuous	Continuous	6.8	9.4		6.2-9.5	No		
		14/11/22	Temperature	Degrees Celsius	Continuous	Continuous	23.17	40.55		43	No		
		14/11/22	Total suspended solids	mg/L	Daily	30	5	31		50	No		
		14/11/22	Zinc	mg/L	Daily	30	0.163	0.458		5	No		
		14/11/22	Flow	kL/day	Daily	30	1732.1	3224.8		4500	No		
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Monthly Summary: September 2022 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
39	Effluent Discharge Point	14/10/22	Ammonia	mg/L	Daily	30	17	117			N/A	
		14/10/22	Arsenic	mg/L	Daily	30	0.006	0.038		0.05	No	
		14/10/22	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.027	0.05	0.2	No	
		14/10/22	Nitrogen (Total)	mg/L	Daily	30	33	178	1500	2000	No	
		14/10/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No	
		14/10/22	pH	pH	Continuous	Continuous	7.0	9.1		6.2-9.5	No	
		14/10/22	Temperature	Degrees Celsius	Continuous	Continuous	20.99	38.49		43	No	
		14/10/22	Total suspended solids	mg/L	Daily	30	8	22		50	No	
		14/10/22	Zinc	mg/L	Daily	30	0.109	0.313		5	No	
		14/10/22	Flow	kL/day	Daily	30	2278.5	3715.4		4500	No	
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Monthly Summary: August 2022 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
39	Effluent Discharge Point	14/09/22	Ammonia	mg/L	Daily	31	17	99			N/A	
		14/09/22	Arsenic	mg/L	Daily	31	0.009	0.018		0.05	No	
		14/09/22	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.027	0.05	0.2	No	
		14/09/22	Nitrogen (Total)	mg/L	Daily	31	46	189	1500	2000	No	
		14/09/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No	
		14/09/22	pH	pH	Continuous	Continuous	6.80	8.70		6.2-9.5	No	
		14/09/22	Temperature	Degrees Celsius	Continuous	Continuous	23.81	34.92		43	No	
		14/09/22	Total suspended solids	mg/L	Daily	31	6	22		50	No	
		14/09/22	Zinc	mg/L	Daily	31	0.015	0.152		5	No	
		14/09/22	Flow	kL/day	Daily	31	2783.4	3402.5		4500	No	
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Monthly Summary: July 2022 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
39	Effluent Discharge Point	16/07/22	Ammonia	mg/L	Daily	31	17	133			N/A	
		16/07/22	Arsenic	mg/L	Daily	31	0.011	0.023		0.05	No	
		16/07/22	Chromium (hexavalent)	mg/L	Daily	31	0.000	0.036	0.05	0.2	No	
		16/07/22	Nitrogen (Total)	mg/L	Daily	31	34	254	1500	2000	No	
		16/07/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No	
		16/07/22	pH	pH	Continuous	Continuous	6.65	8.71		6.2-9.5	No	
		16/07/22	Temperature	Degrees Celsius	Continuous	Continuous	21.48	34.92		43	No	
		16/07/22	Total suspended solids	mg/L	Daily	31	4	19		50	No	
		16/07/22	Zinc	mg/L	Daily	31	0.011	0.14		5	No	
		16/07/22	Flow	kL/day	Daily	31	2617.7	3689.7		4500	No	



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Concentration Limit: See licence L3.6

Monthly Summary: June 2022 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	
39	Effluent Discharge Point	16/07/22	Ammonia	mg/L	Daily	30	20	66			N/A		
		16/07/22	Arsenic	mg/L	Daily	30	0.011	0.019		0.05	No		
		16/07/22	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.029	0.05	0.2	No		
		16/07/22	Nitrogen (Total)	mg/L	Daily	30	42	178	1500	2000	No		
		16/07/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No		
		16/07/22	pH	pH	Continuous	Continuous	6.65	8.62		6.2-9.5	No		
		16/07/22	Temperature	Degrees Celsius	Continuous	Continuous	22.65	33.10		43	No		
		16/07/22	Total suspended solids	mg/L	Daily	30	5	19		50	No		
		16/07/22	Zinc	mg/L	Daily	30	0.032	0.113		5	No		
		16/07/22	Flow	kL/day	Daily	30	2262.8	3202.2		4500	No		
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Monthly Summary: May 2022 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
39	Effluent Discharge Point	16/06/22	Ammonia	mg/L	Daily	30	24	100			NA	
		16/06/22	Arsenic	mg/L	Daily	30	0.004	0.018		0.05	No	
		16/06/22	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.021	0.05	0.2	No	
		16/06/22	Nitrogen (Total)	mg/L	Daily	30	45	195	1500	2000	No	
		16/06/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No	
		16/06/22	pH	pH	Continuous	Continuous	6.78	9.13		6.2-9.5	No	
		16/06/22	Temperature	Degrees Celsius	Continuous	Continuous	24.07	37.66		43	No	
		16/06/22	Total suspended solids	mg/L	Daily	30	7	17		50	No	
		16/06/22	Zinc	mg/L	Daily	30	0.028	0.14		5	No	
		16/06/22	Flow	kL/day	Daily	30	2308.5	3426.6		4500	No	
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 Monthly Summary: April 2022 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
39	Effluent Discharge Point	16/05/22	Ammonia	mg/L	Daily	30	47	287			NA	
		16/05/22	Arsenic	mg/L	Daily	30	0.004	0.013		0.05	No	
		16/05/22	Chromium (hexavalent)	mg/L	Daily	30	0.000	0.026	0.05	0.2	No	
		16/05/22	Nitrogen (Total)	mg/L	Daily	30	65	460	1500	2000	No	
		16/05/22	Oil and Grease	mg/L	Twice per Week	8	1.60	1.60		10	No	
		16/05/22	pH	pH	Continuous	Continuous	7.12	8.75		6.2-9.5	No	
		16/05/22	Temperature	Degrees Celsius	Continuous	Continuous	6.99	37.27		43	No	
		16/05/22	Total suspended solids	mg/L	Daily	30	5	23		50	No	
		16/05/22	Zinc	mg/L	Daily	30	0.004	0.143		5	No	
		16/05/22	Flow	kL/day	Daily	30	2424.4	4197.0		4500	No	
38												