

Sediment Basin Water Monitoring - April 2018

Monitoring Location: POINT 1 - Sediment Basin Outlet

Licensee: Laing O'Rourke Australia Construction Pty Ltd
 Premises: Woolgoolga to Ballina Pacific Highway Upgrade Project, Harwood NSW 2465
 Licence No: 20713

Portion / Section	Contractor	Basin Name/ Number	Rainfall start date	Rainfall end date	Rainfall total (mL)	Date of Treatment	Date of Discharge	Volume of Discharge (kL)	EPL water quality parameters			Turbidity NTU Limit - Varies per Contractor	Comments	
									Oil & Grease	pH	TSS (mg/L)			
									Nil	6.5 – 8.5	Limit ≤ 50 mg/L			
Portion A	SWC	38550	4/04/2018	5/04/2018	9	5/04/2018	5/04/2018	500	Nil	7.8		10	Released via basin spillway	
Portion A	SWC	39580	4/04/2018	5/04/2018	9	5/04/2018	5/04/2018	600	Nil	7.8		40	Released via basin spillway	
Portion A	SWC	47340	4/04/2018	8/04/2018	26.4	9/04/2018	9/04/2018	300	Nil	6.7		24	Released via basin spillway	
Portion A	SWC	47340	4/04/2018	8/04/2018	26.4	10/04/2018	10/04/2018	50	Nil	7.8	6	15	Released via basin spillway	
Portion A	SWC	47710	4/04/2018	8/04/2018	26.4	6/04/2018	6/04/2018	220	Nil	7.5		30	Released via basin spillway	
Portion A	SWC	47710	4/04/2018	8/04/2018	26.4	9/04/2018	9/04/2018	75	Nil	7.1	11	24	Released via basin spillway	
Portion A	SWC	48610	4/04/2018	8/04/2018	26.4	7/04/2018	7/04/2018	300	Nil	7.8	1	13	Released via basin spillway	
Portion A	SWC	48780	4/04/2018	8/04/2018	26.4	9/04/2018	9/04/2018	300	Nil	6.7		24	Released via basin spillway via syphor	
Portion A	SWC	51450	4/04/2018	8/04/2018	26.4	9/04/2018	9/04/2018	125	Nil	6.8	13	15	Released via basin spillway	
Portion A	SWC	53660	4/04/2018	8/04/2018	26.4	9/04/2018	10/04/2018	308	Nil	7.1		20	Released via basin spillway	
Portion A	SWC	53660	4/04/2018	8/04/2018	26.4	9/04/2018	11/04/2018	200	Nil	6.9		24	Released via basin spillway	
Portion A	SWC	55110	4/04/2018	8/04/2018	26.4	6/04/2018	6/04/2018	297	Nil	7		27	Released via basin spillway via syphor	
Portion A	SWC	36510	15/04/2018	25/04/2018	51.2	30/04/2018	30/04/2018	400	Nil	7.1		45	Released via basin spillway	
Portion A	SWC	37020	15/04/2018	25/04/2018	51.2	16/04/2018	16/04/2018	500	Nil	7.4		50	Released via basin spillway	
Portion A	SWC	37370	15/04/2018	25/04/2018	51.2	28/04/2018	28/04/2018	200	Nil	7.2		35	Released via basin spillway	
Portion A	SWC	38180	15/04/2018	25/04/2018	51.2	29/04/2018	29/04/2018	200	Nil	6.9		40	Released via basin spillway via syphor	
Portion A	SWC	39030	15/04/2018	25/04/2018	51.2	29/04/2018	30/04/2018	350	Nil	7.3		50	Released via basin spillway	
Portion A	SWC	39700	15/04/2018	25/04/2018	51.2	27/04/2018	27/04/2018	300	Nil	6.9		40	Released via basin spillway via syphor	
Portion A	SWC	39700	15/04/2018	25/04/2018	51.2	28/04/2018	28/04/2018	400	Nil	6.7		30	Released via basin spillway via syphor	
Portion A	SWC	41340	15/04/2018	25/04/2018	51.2	27/04/2018	27/04/2018	400	Nil	7.2		30	Released via basin spillway	
Portion A	SWC	48780	18/04/2018	26/04/2018	46.2	20/04/2018	20/04/2018	190	Nil	6.8		24	Released via basin spillway via syphor	
Portion A	SWC	52680	18/04/2018	26/04/2018	46.2	26/04/2018	27/04/2018	228	Nil	7		24	Released via basin spillway via syphor	
Portion A	SWC	53830	18/04/2018	26/04/2018	46.2	26/04/2018	27/04/2018	142	Nil	6.9		24	Released via basin spillway via syphor	
Portion A	SWC	54660	18/04/2018	26/04/2018	46.2	27/04/2018	27/04/2018	48	Nil	7.2		24	Released via basin spillway via syphor	
Portion A	SWC	55100	18/04/2018	26/04/2018	46.2	27/04/2018	27/04/2018	298	Nil	7.1		24	Released via basin spillway via syphor	
Portion A	SWC	55100	18/04/2018	26/04/2018	46.2	30/04/2018	30/04/2018	298	Nil	7.8		30	Released via basin spillway via syphor	
Portion A	SWC	55110	18/04/2018	26/04/2018	46.2	20/04/2018	20/04/2018	297	Nil	7.8		30	Released via basin spillway via syphor	
Portion A	SWC	58880	18/04/2018	27/04/2018	41.4	26/04/2018	26/04/2018	450	Nil	7.5		20	Released via basin spillway	
Portion A	SWC	57260	18/04/2018	27/04/2018	41.4	26/04/2018	26/04/2018	400	Nil	7.9		20	Released via basin spillway	
Portion A	SWC	59210	18/04/2018	27/04/2018	41.4	30/04/2018	30/04/2018	400	Nil	7.7		20	Released via basin spillway via syphor	
Portion A	SWC	61750	18/04/2018	27/04/2018	41.4	26/04/2018	26/04/2018	280	Nil	7.6		20	Released via basin spillway	
Portion A	SWC	63890	24/04/2018	27/04/2018	28.8	26/04/2018	27/04/2018	400	Nil	7.2		40	Released via basin spillway via syphor	
Portion A	SWC	67080	24/04/2018	27/04/2018	28.8	27/04/2018	27/04/2018	400	Nil	7.1		40	Released via basin spillway via syphor	
Portion A	SWC	67520	24/04/2018	27/04/2018	28.8	27/04/2018	27/04/2018	200	Nil	6.6		24	Released via basin spillway via syphor	
Portion A	SWC	68090	24/04/2018	27/04/2018	28.8	26/04/2018	26/04/2018	200	Nil	6.8		20	Released via basin spillway via syphor	
Portion A	SWC	43490	N/A	N/A	N/A	3/04/2018	3/04/2018	300	Nil	8		30	Released via basin spillway -Water Cart	
Portion A S4A	BGC	SB 77500 W	25/03/2018	29/03/2018	0.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green) - not captured in March EPL
Portion A S4A	BGC	SB 77800	25/03/2018	29/03/2018	0.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green) - not captured in March EPL
Portion A S4A	BGC	SB 78000	25/03/2018	29/03/2018	0.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red) - not captured in March EPL
Portion A S4A	BGC	SB 77500 E	25/03/2018	29/03/2018	0.046	43185	26/03/2018	1140	Nil	7.23		51	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 78450 W	25/03/2018	29/03/2018	0.046	43185	26/03/2018	295	Nil	7.89		77.8	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 78450 E	25/03/2018	29/03/2018	0.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green) - not captured in March EPL
Portion A S4A	BGC	SB GH4	25/03/2018	29/03/2018	0.046	43185	27/03/2018	1751	Nil	7.4	36	44	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 76450	25/03/2018	29/03/2018	0.046	43185	27/03/2018	781	Nil	6.91	43	53	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 76200	25/03/2018	29/03/2018	0.046	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green) - not captured in March EPL
Portion A S4A	BGC	SB 75900	25/03/2018	29/03/2018	0.046	43185	27/03/2018	1099	Nil	7.61		40.8	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 75200 E	25/03/2018	29/03/2018	0.046	43185	26/03/2018	498	Nil	6.88		57.1	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 75200 W	25/03/2018	29/03/2018	0.046	43185	26/03/2018	213	Nil	6.75	42	60	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 75500	25/03/2018	29/03/2018	0.046	43185	28/03/2018	327	Nil	8.01		52.4	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 69620 E	25/03/2018	29/03/2018	0.039	43185	27/03/2018	2292	Nil	6.98	16	13	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 68910	25/03/2018	29/03/2018	0.039	43185	26/03/2018	283	Nil	8.03		9.6	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 69620 W	25/03/2018	29/03/2018	0.039	43185	26/03/2018	390	Nil	6.9	14	13	Not captured in March EPL Reporting	
Portion A S4A	BGC	SB 69652	25/03/2018	29/03/2018	0.039	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 77500W	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (green)
Portion A S4A	BGC	SB 77800	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 78000	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 77500 E	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	1140	Nil	8	17	47.9	Sample has been sent to lab for analysis	
Portion A S4A	BGC	SB 78450 W	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	295	Nil	6.74	42	58	Sample has been sent to lab for analysis	
Portion A S4A	BGC	SB 78450 E	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB GH4	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	1751	Nil	7.66	34	61.5	Sample has been sent to lab for analysis	
Portion A S4A	BGC	SB 76450	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 76200	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 75200 E	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	498	Nil	8.14	19	36	Basin in compliant (red)	
Portion A S4A	BGC	SB 75200 W	29/04/2018	1/05/2018	0.023	N/A	30/04/2018	213	Nil	7.83		62.5		
Portion A S4A	BGC	SB 75500	29/04/2018	1/05/2018	0.023	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 69620 E	29/04/2018	1/05/2018	0.026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 68910	29/04/2018	1/05/2018	0.026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 69620 W	29/04/2018	1/05/2018	0.026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion A S4A	BGC	SB 69052	29/04/2018	1/05/2018	0.026	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Basin is compliant (red)
Portion B	BMD - Diversion Lns	MC01	28/03/2018	10/04/2018	34.8	pre-dosed catchment and basin inlet	7/04/2018	6.5	Nil	6.58		32.5		
Portion B	BMD - Diversion Lns	MC03	28/03/2018	10/04/2018	34.8	pre-dosed catchment and basin inlet	7/04/2018	4.5	Nil	6.54		30.1		

Portion B	BMD - Diversion Lns	MCO1	18/04/2018	27/04/2018	58.4	pre-dosed catchment and basin inlet	27/04/2018	4.5	Nil	6.96		18.7	
Portion B	BMD - Section 6	BMD-SB04	4/04/2018	7/04/2018	11.4	8/04/2018	10/04/2018	100	Nil	7.19		2.3	TSS/Turbidity correlation approved (TSS = 39 NTU). TSS sampling every 3rd release
Portion D	LendLease	Law's Point (146380W)	22/03/2018	27/03/2018	44	N/A	26/03/2018	805	Nil	6.6			Irrigated to land infiltration zone 150m north
Portion D	LendLease	Law's Point (146380W)	28/03/2018	3/04/2018	19.8	N/A	3/04/2018	805	Nil	6.9			Irrigated to land infiltration zone 150m north