

## Sediment Basin Water Monitoring - November 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 - Varies per Contractor	Comments	
									Oil & Grease Nil	pH 6.5 - 8.5	TSS (mg/L)			
									Nil	6.5 - 8.5	Limit ≤ 50 mg/L			
A	SWC	TB- 037020S	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 037620N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 037810N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 038010N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 038180N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 038480N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 038550N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 039580N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 039700N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 040870N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 041340S	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	TB- 041800 Ave	18/11/2018	22/11/2018	16.2	n/a	22/11/2018	250	Nil	n/a	n/a	n/a	pumped to bore water storage pond	
A	SWC	TB- 042500S	18/11/2018	22/11/2018	16.2	n/a	27/11/2018	300	Nil	n/a	n/a	n/a	dewatered using water truck	
A	SWC	PB- 043490S	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	PB- 044200S	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	PB- 044470N	18/11/2018	22/11/2018	16.2				Nil				below design storage capacity	
A	SWC	PB- 046000N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	PB- 047020N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	PB- 047710N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	PB- 048010S	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	TB- 048610S	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	TB- 048780N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	TB- 050360N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	PB- 052390N	18/11/2018	22/11/2018	15.6				Nil				below design storage capacity	
A	SWC	TB- 060030N	8/11/2018	22/11/2018	39.8				Nil				dewatered with a water cart	
A	SWC	TB- 060780N	8/11/2018	22/11/2018	39.8				Nil				dewatered with a water cart	
A	SWC	TB- 064530N	8/11/2018	22/11/2018	35				Nil				dewatered with a water cart	
A	SWC	PB- 057010N	8/11/2018	22/11/2018	39.8				Nil				dewatered with a water cart	
A	SWC	TB- 062150N	8/11/2018	22/11/2018	39.8				Nil				dewatered by water truck	
A	SWC	TB- 067520N	8/11/2018	22/11/2018	35				Nil				dewatered with a water cart	
A	SWC	PB- 055110N	8/11/2018	22/11/2018	16				Nil				dewatered with a water cart	
A	SWC	PB- 053660N	8/11/2018	22/11/2018	16				Nil				pumped into construction water source dam	
A	SWC	TB- 037370N	18/11/2018	22/11/2018	16.2		19/11/2018	200	Nil	8.20	17.0	50		
A	SWC	TB- 038070N	18/11/2018	22/11/2018	16.2		23/11/2018	100	Nil	9.10	15.0	30		
A	SWC	TB- 039030N	18/11/2018	22/11/2018	16.2		23/11/2018	50	Nil	7.80	16.0	30		
A	SWC	PB- 047340N	8/11/2018	11/11/2018	16.8		14/11/2018	100	Nil	8.00	16.0	10		
A	SWC	TB- 048780N	n/a	n/a	n/a		29/11/2018	200	Nil	7.40	4.0	24	dewatered for basin maintenance	
A	SWC	TB- 050010N	8/11/2018	11/11/2018	16.8		9/11/2018	200	Nil	7.80	16.0	24		
A	SWC	TB- 050010N	18/11/2018	22/11/2018	15.6		26/11/2018	200	Nil	7.90	24.0	24		
A	SWC	TB- 050010N	n/a	n/a	n/a		30/11/2018	200	Nil	7.10	6.0	24	dewatered for basin maintenance	
A	SWC	PB- 051450N	8/11/2018	11/11/2018	16.8		13/11/2018	200	Nil	7.00	3.0	24		
A	SWC	TB- 051450N	18/11/2018	22/11/2018	15.6		26/11/2018	200	Nil	7.90	7.0	24		
A	SWC	TB- 067340N	29/10/2018	30/10/2018	9.2		1/11/2018	150	Nil	8.20	1.0	24		
A	SWC	TB- 057260N	8/11/2018	11/11/2018	10.4		12/11/2018	70	Nil	6.80	5.0	10		
A	SWC	PB- 052680N	8/11/2018	11/11/2018	16.8		13/11/2018	300	Nil	7.20	1.0	24		
A	SWC	TB- 053830N	8/11/2018	11/11/2018	16.8		14/11/2018	300	Nil	8.30	1.0	25		
A	SWC	TB- 054660N	8/11/2018	11/11/2018	16.8		13/11/2018	300	Nil	6.70	4.0	24		
A	SWC	PB- 052680N	8/11/2018	11/11/2018	16.8		13/11/2018	100	Nil	7.10	1.0	5		
A	SWC	TB- 054660N	8/11/2018	11/11/2018	16.8		13/11/2018	150	Nil	6.70	1.0	10		
A	SWC	PB- 056880N	8/11/2018	11/11/2018	10.4		14/11/2018	150	Nil	7.70	1.0	5		
A	SWC	PB- 056880N	8/11/2018	11/11/2018	10.4		14/11/2018	100	Nil	6.80	16.0	24		
A	SWC	PB- 068700N	8/11/2018	16/11/2018	7		16/11/2018	300	Nil	7.40	1.0	24		
A	SWC	TB- 059350N	8/11/2018	18/11/2018	29.2		19/11/2018	300	Nil	6.60	4.0	20		
A	SWC	TB- 065570N	8/11/2018	18/11/2018	24		19/11/2018	300	Nil	6.50	4.0	24		
A	SWC	TB- 067340N	8/11/2018	18/11/2018	24		19/11/2018	200	Nil	6.60	10.0	20		
A	SWC	TB- 062840S	8/11/2018	18/11/2018	29.2		20/11/2018	20/11/2018	100	Nil	6.70	3.0	10	
A	SWC	TB- 057260S	8/11/2018	18/11/2018	29.2		20/11/2018	20/11/2018	100	Nil	6.70	1.0	10	
A	SWC	TB- 068950N	8/11/2018	18/11/2018	29.2		20/11/2018	20/11/2018	200	Nil	8.00	1.0	10	
A	SWC	PB- 068700N	8/11/2018	18/11/2018	24		21/11/2018	24	200	Nil	6.60	4.0	25	
A	SWC	TB- 068090N	8/11/2018	18/11/2018	24		21/11/2018	21/11/2018	100	Nil	6.50	4.0	24	
A	SWC	TB- 062840S	8/11/2018	22/11/2018	39.8		23/11/2018	23/11/2018	150	Nil	6.70	3.0	24	
A	SWC	PB- 068700N	8/11/2018	22/11/2018	35		23/11/2018	23/11/2018	100	Nil	6.60	4.0	24	
A	SWC	PB- 068700N	8/11/2018	22/11/2018	35		23/11/2018	24/11/2018	200	Nil	6.50	3.0	30	
A	SWC	TB- 059350N	8/11/2018	22/11/2018	39.8		25/11/2018	26/11/2018	150	Nil	6.70	1.0	10	
A	SWC	TB- 067080N	8/11/2018	22/11/2018	35		25/11/2018	27/11/2018	200	Nil	7.50	4.0	40	
A	SWC	TB- 059350N	28/11/2018	29/11/2018	6		29/11/2018	150	Nil	6.70	12.0	30		
A	SWC	TB- 057260N	28/11/2018	29/11/2018	6		29/11/2018	400	Nil	7.20	3.0	30		
A	SWC	TB- 059210N	28/11/2018	29/11/2018	6		29/11/2018	200	Nil	8.00	15.0	30		
A	SWC	PB- 052680N	28/11/2018	29/11/2018	5.4		29/11/2018	100	Nil	6.70	5.0	15		
A	SWC	PB- 056880N	28/11/2018	29/11/2018	5.4		29/11/2018	350	Nil	6.60	10.0	25		
A	SWC	PB- 056880N	28/11/2018	29/11/2018	5.4		29/11/2018	100	Nil	6.50	2.0	10		
A S4	BGC	SB 69620	11/10/2018	17/10/2018	7.8		22/10/2018	23/10/2018	2600	Nil	6.78	34.0	52	Lab report was pending for October Report
A S4	BGC	SB 77500 E	17/11/2018	23/11/2018	10.2		18/11/2018	23/11/2018	1516	Nil	8.08		78	Lab report pending - to be provided December Report
A S4	BGC	SB 75500 W	17/11/2018	23/11/2018	10.2		18/11/2018	19/11/2018	400	Nil	8.1		79.4	
A S4	BGC	SB 75500 W	28/11/2018	29/11/2018	16.2		29/11/2018	30/11/2018	700	Nil	7.94		79.2	
B	BMD	BMD-SB03	18/11/2018	23/11/2018	44.4		N/A	21/11/2018	300	Nil	6.74		43	TSS/Turbidity correlation approved - TSS results pending from EAL for November
B	BMD	BMD-SBCB	18/11/2018	23/11/2018	44.4		N/A	23/11/2018	300	Nil	7.34		30	TSS/Turbidity correlation approved
B	BMD	BMD-MC03	18/11/2018	23/11/2018	44.4		N/A	24/11/2018	300	Nil	7.32		22	TSS/Turbidity correlation approved
B	BMD	BMD-MC03	18/11/2018	23/11/2018	44.4		N/A	26/11/2018	250	Nil	7.05		19	TSS/Turbidity correlation approved

B	BMD	BMD-MC03	18/11/2018	23/11/2018	44.4	N/A	21/11/2018	300	Nil	6.56		25	TSS/Turbidity correlation approved
B	BMD	BMD-MC01	18/11/2018	23/11/2018	44.4		19/11/2018	22/11/2018	100	Nil	6.53	29	TSS/Turbidity correlation approved
B	BMD	BMD-MC01	18/11/2018	23/11/2018	44.4		19/11/2018	21/11/2018	200	Nil	7.50	36	TSS/Turbidity correlation approved
B	BMD	BMD-SB11	N/A	N/A	N/A	N/A	5/11/2018	300	Nil	7.12		14	Pump out under SSZ so basin can be used for water storage
B	BMD	BMD-SB11	N/A	N/A	N/A	N/A	3/11/2018	400	Nil	7.63		16	Pump out under SSZ so basin can be used for water storage
B	BMD	BMD-SB11	N/A	N/A	N/A	N/A	7/11/2018	180	Nil	7.72		18	Pump out under SSZ so basin can be used for water storage
B	BMD	BMD-SB11	N/A	N/A	N/A	N/A	6/11/2018	200	Nil	7.04		15	Pump out under SSZ so basin can be used for water storage
C	CPB	145000		21/10/2018	7mm		20/10/2018	22/10/2018	860	Nil	7.20	23.0	
C	CPB	145000		25/10/2018	3mm		20/10/2018	26/10/2018	860	Nil	6.70	18.0	
D	LendLease	Jali Quarry (148450W)	-	-	-	N/A	25/10/2018	150	Nil	6.70	7.0	38	Discharge to carry out quarrying activities
D	LendLease	Jali Quarry (148450W)	-	-	-	N/A	26/10/2018	60	Nil	6.90	10.0	30	Discharge to carry out quarrying activities
D	LendLease	Jali Quarry (148450W)	-	-	-	N/A	29/10/2018	90	Nil	7.10	2.0	15	Discharge to carry out quarrying activities
D	LendLease	Jali Quarry (148450W)	-	-	-	N/A	30/10/2018	150	Nil	7.10	5.0	11	Discharge to carry out quarrying activities
D	LendLease	Jali Quarry (148450W)	-	-	-	N/A	8/11/2018	300	Nil	7.10	14.0	32	Discharge to carry out quarrying activities