Environmental Protection Licence Monitoring Data





WestConnex New M5



Project name:	WestConnex – New M5	WestConnex – New M5					
Licensee	CPB Contractors Pty Limited	PB Contractors Pty Limited					
Monitoring period	August 2016	ugust 2016					
Website:	WestConnex – Explore the Route – New M5 (Beverly	WestConnex – Explore the Route – New M5 (Beverly Hills to St Peters) – New M5 Resources					
Environmental Protection licence number/s:	20772	4627					
Premise addresses	WestConnex New M5, between Beverly Hills and St	New M5 St Peters Interchange,					
	Peters, Beverly Hills NSW 2209	10-16 Albert Street, St Peters NSW 2044					

Monitoring Type: Water Discharge Monitoring

Discharge/Monitoring Point	Date sampled	Total suspended solids		рН		Oil & Grease		Monitoring	Comment
		Licence limit	Result	Licence limit	Result	Licence limit	Result	frequency	
Water Treatment Plant ARN-1	12/08/2016	50	<5 (LOD)	6.5-8.5	6.92	None visible	None	Each day of discharge	Compliant
Water Treatment Plant ARN-1	25/08/2016	50	39	6.5-8.5	7.6	None visible	None	Each day of discharge	Compliant

Monitoring Type: Air Monitoring

Monitoring Point /	Date	Dust Deposition	Comment
EPA Identification point		g/m2/month	
(EPL 4627)			
DG1/9	August 2016	3.0	
DG2/10	August 2016	3.5	
DG3/11	August 2016	8.2	Dust gauge is located towards the base of the landfill pit and may capture dust from landfill closure work. No dust has been observed leaving the site boundary. An additional water cart has been procured to increase dust suppression. Works will be monitored closely for potential dust generation.
DG4/12	August 2016	11.5	Dust gauge is located on the works side of an ~8m high wall. It is believed broom sweeping directly adjacent to the gauge contributed to this result. Current activities are underway to pave adjacent exposed ground.

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Monitoring Type: Ground Water Monitoring

Date Sampled: 11/08/2016	Monitoring Point (EPL 4627)							
Pollutant	2 (MW1)	3 (MW2s)	4 (MW2d)	5 (MW3)	6 (MW4b)	Frequency (MP 2-6)	7 (LP1)	Frequency (MP 7)
Alkalinity (as calcium carbonate) (mg/L)	110	340	350	520	72	Quarterly	2200	Quarterly
Aluminium (mg/L)	380	200	60	<10	1500	Yearly	60	Quarterly
Arsenic (mg/L)	1	1	<1	1	2	Yearly	7	Quarterly
Barium (mg/L)	44	71	85	100	75	Yearly	1500	Quarterly
Benzene (mg/L)	<1	<1	<1	<1	<1	Yearly	<10	Quarterly
Bicarbonate (mg/L)	110	340	350	520	72	Quarterly	2200	Quarterly
Cadmium (mg/L)	<0.1		<0.1	<0.1	<0.1	Yearly	0.1	Quarterly
Calcium (mg/L)	52	130	400	210	13	Quarterly	170	Quarterly
Chloride (mg/L)	1500	27	5200	1800	1200	Quarterly	750	Quarterly
Chromium (hexavalent) (mg/L)	<0.005	<0.005	<0.05	<0.005	<0.005	Yearly	<0.05	Quarterly
Chromium (total) (mg/L)	2	1	<1	12	22	Yearly	16	Quarterly
Cobalt (mg/L)	<1	<1	1	2	8	Yearly	4	Quarterly
Copper (mg/L)	8	2	3	69	9	Yearly	200	Quarterly
Ethyl benzene (mg/L)	<1	<1	<1	<1	<1	Yearly	<10	Quarterly
Fluoride (mg/L)	0.7	0.3	0.2	0.3	1	Yearly	0.4	Quarterly
Lead (mg/L)	11	1	2	<1	4	Yearly	57	Quarterly
Magnesium (mg/L)	110	8.5	600	160	66	Quarterly	91	Quarterly
Manganese (mg/L)	1500	260	410	170	1800	Yearly	230	Quarterly
Mercury (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	Yearly	<0.05	Quarterly
Naphthalene (mg/L)	ND	ND	ND	ND	ND	Yearly	4	Yearly
Nitrate (mg/L)	0.15	0.009	0.007	0.02	0.082	Yearly	<0.05	Quarterly
Nitrite (mg/L)	0.006	<0.005	<0.005	<0.005	<0.005	Yearly	<0.05	Quarterly
Nitrogen (ammonia) (mg/L)	0.15	0.85	2.3	1.8	0.13	Quarterly	180	Quarterly
Organochlorine pesticides (mg/L)	ND	ND	ND	ND	ND	Yearly	ND	Quarterly
pH (pH) (field test)	6.19	6.14	6.65	6.80	5.61	Quarterly	7.2	Quarterly
Polycyclic aromatic hydrocarbons (mg/L)	ND	ND	ND	ND	ND	Yearly	ND	Quarterly
Potassium (mg/L)	14	23	45	27	11	Quarterly	80	Quarterly

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Pollutant	2 (MW1)	3 (MW2s)	4 (MW2d)	5 (MW3)	6 (MW4b)	Frequency (MP 2-6)	7 (LP1)	Frequency (MP 7)
Sodium (mg/L)	1200	43	3000	1300	1100	Quarterly	910	Quarterly
Standing Water Level (m) (field test)	12.94	5.35	13.29	2.36	14.58	Quarterly	-	Quarterly
Sulfate (mg/L)	320	43	300	170	440	Quarterly	19	Quarterly
Toluene (mg/L)	<1	<1	<1	<1	<1	Yearly	<10	Quarterly
Total dissolved solids (mg/L)	3500	500	12000	4300	2900	Quarterly	3000	Quarterly
Total organic carbon (mg/L)	5	10	4	2	6	Yearly	97	Quarterly
Total petroleum hydrocarbons (mg/L) C6-C9	ND	ND	ND	ND	ND	Yearly	ND	Quarterly
Total petroleum hydrocarbons (mg/L) C10-C14	ND	ND	ND	ND	ND	Yearly	310	Quarterly
Total petroleum hydrocarbons (mg/L) C15-C28	ND	ND	ND	ND	ND	Yearly	2400	Quarterly
Total petroleum hydrocarbons (mg/L) C29-C36	ND	ND	ND	ND	ND	Yearly	120	Quarterly
Total Phenolics (mg/L)	<0.05	<0.05	<0.05	<0.05	<0.05	Yearly	<0.05	Quarterly
Xylene (mg/L)	ND	ND	ND	ND	ND	Yearly	ND	Quarterly
Zinc (mg/L)	50	33	60	1	67	Yearly	320	Quarterly

^{*}ND = Not detected