



ChemCentre
Inorganic Chemistry Section
Report of Examination



Purchase Order: None
ChemCentre Reference: 16S1038 R0

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Attention: Adrian Pinder

Report on: 12 samples received on 27/10/2016

<u>LAB ID</u>	<u>Material</u>	<u>Client ID and Description</u>
16S1038 / 001	water	FV033
16S1038 / 002	water	FV035
16S1038 / 003	water	FV036
16S1038 / 004	water	FV037
16S1038 / 005	water	FV038
16S1038 / 006	water	FV039
16S1038 / 007	sediment	FV033
16S1038 / 008	sediment	FV035
16S1038 / 009	sediment	FV036
16S1038 / 010	sediment	FV037
16S1038 / 011	sediment	FV038
16S1038 / 012	sediment	FV039

LAB ID			001	002	003	004
Client ID			FV033	FV035	FV036	FV037
Sampled			06/07/2016	07/07/2016	07/07/2016	08/07/2016
Analyte	Method	Unit				
Alkalinity, total	iALK1WATI	mg/L	33	37	77	75
Bicarbonate	iALK1WATI	mg/L	40	45	94	91
Calcium	iMET1WCICP	mg/L	1.2	1.1	1.6	3.1
Carbonate	iALK1WATI	mg/L	<1	<1	<1	<1
Chloride	iANIO1WAIC	mg/L	160	200	290	17
Chlorophyll a	eCHLA1WACO	ug/L	1.5	0.5	0.3	<0.1
Colour, TCU	iCOL1WACO	TCU	12000	22000	29000	18000
Electrical Conductivity	IEC1WZSE	mS/m	64.2	75.0	113	25.0
Iron	iMET1WCICP	mg/L	9.8	2.7	0.065	25
Magnesium	iMET1WCICP	mg/L	1.5	0.8	0.9	4.0
Nitrogen, total	iNP1WTFIA	mg/L	2.8	3.9	6.2	0.33
Phaeophytin a	eCHLA1WACO	ug/L	1.0	<0.2	<0.2	2.4
Phosphorus, total	iPP1WTFIA	mg/L	0.34	0.85	0.81	0.077
Potassium	iMET1WCICP	mg/L	8.3	7.5	11.2	12.8
Sodium	iMET1WCICP	mg/L	119	140	220	46.7
Sulphate	iANIO1WAIC	mg/L	1.4	2.1	3.0	3.2
Turbidity	iTURB1WCZZ	NTU	3600	19000	30000	37000

LAB ID	005	006	007	008	
Client ID	FV038	FV039	FV033	FV035	
Sampled	09/07/2016	10/07/2016	06/07/2016	07/07/2016	
Analyte	Method	Unit			
Alkalinity, total	iALK1WATI	mg/L	23	25	
Bicarbonate	iALK1WATI	mg/L	28	30	
Calcium	iMET1WCICP	mg/L	5.0	7.1	
Carbonate	iALK1WATI	mg/L	<1	<1	
Chloride	iANIO1WAIC	mg/L	5.8	30	
Chlorophyll a	eCHLA1WACO	ug/L	2.1	1.5	
Colour, TCU	iCOL1WACO	TCU	80	150	
Electrical Conductivity	iEC1WZSE	mS/m	7.0	16.2	
Iron	iMET1WCICP	mg/L	0.48	0.59	
Magnesium	iMET1WCICP	mg/L	1.2	1.9	
Nitrogen, total	iNP1WTFIA	mg/L	0.55	7.6	
Phaeophytin a	eCHLA1WACO	ug/L	0.5	1.2	
Phosphorus, total	iPP1WTFIA	mg/L	0.12	0.68	
Potassium	iMET1WCICP	mg/L	2.0	2.8	
Sodium	iMET1WCICP	mg/L	6.6	25.6	
Sulphate	iANIO1WAIC	mg/L	0.8	0.6	
Turbidity	iTURB1WCZZ	NTU	670	550	
Sand (fine/course)	fraction	%		21.5	15.0
Silt	fraction	%		28.5	17.0
method S06 (+fine/crs sand	fraction	%		50.0	68.0
> 2mm fraction	(>2mm)	%		9.2	15.1

LAB ID	009	010	011	012		
Client ID	FV036	FV037	FV038	FV039		
Sampled	07/07/2016	08/07/2016	09/07/2016	10/07/2016		
Analyte	Method	Unit				
Sand (fine/course)	fraction	%	21.5	12.0	40.0	21.0
Silt	fraction	%	25.5	23.5	16.5	23.0
method S06 (+fine/crs sand	fraction	%	53.0	64.5	43.5	56.0
> 2mm fraction	(>2mm)	%	1.5	<0.1	10.0	2.9

Method	Method Description
(>2mm)	Sieved particles greater than 2 mm
eCHLA1WACO	Chlorophyll A, B, C and phaeophytin (outsourced)
fraction	Sand, 0.02 to 2.0mm, Clay, less than 0.002mm, Silt, 0.02 to 0.002mm by in house method S06 (Australian Standard AS1289.C6.3).
iALK1WATI	Alkalinity (as CaCO ₃) and constituents by acid titration.
iANIO1WAIC	Anions in water by Ion Chromatography.
iCOL1WACO	Colour by spectrometry.
iEC1WZSE	Electrical conductivity in water compensated to 25C.
iMET1WCICP	Total dissolved metals by ICPAES.
iNP1WTFIA	Total Nitrogen by persulphate digestion and analysis by FIA.
iPP1WTFIA	Total Phosphorus by persulphate digestion and FIA.
iTURB1WCZZ	Turbidity of water by Nephelometer.

The result for colour is not a true colour measurement of the sample, the high turbidity in these samples is contributing to this result.

The chlorophyll analysis was outsourced to another laboratory, Marine and Freshwater Research Laboratory, their reference CC16-3.

These results apply only to the sample(s) as received. Unless arrangements are made to the contrary, these samples will be disposed of after 30 days of the issue of this report.

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11-Nov-2016



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