

CHEMICAL ANALYSIS REPORT

LOW ECOLOGICAL SERVICES Pty Ltd

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AUSTRALIA

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REPORT CODE: NT45275
Report Date: 15/03/2016
Samples Received: 1/03/2016
Number of Samples: 3

Report Distribution:
Jeremy Snowdon-James
Environmental Consultant

Purchase Order: _____
Project: White Range 24/2/2016
Cost Code: _____

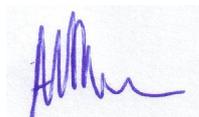
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Report Details: **NATA ACCREDITATION No: 14610**
Test results only apply to samples received
Samples were analysed between 01/03/16 and 15/03/16
Water samples will be discarded one month from date of report

Comments:

Due to high levels of dissolved solids some samples have been diluted to reduce matrix effects.
The dilution factors are listed in the report & the detection levels are raised accordingly.
These samples were incorrectly preserved for Mercury analysis. Mercury data is indicative only.

Authorisation:



Andrew McKeon



**WORLD RECOGNISED
ACCREDITATION**

Accredited for compliance with ISO/IEC
17025

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NORTHERN TERRITORY ENVIRONMENTAL LABORATORIES

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Methodology:

Analysis	Analytical Method	Technique	Accuracy/ Precision +/-%	Detection Limit	Data Units
pH	ALK1	EA	10	0.1	units
EC	ALK1	EA	10	1	µS/cm
Alkalinity	ALK1	EA	10	1	mg/L
CO3	ALK1	EA	10	1	mg/L
HCO3	ALK1	EA	10	1	mg/L
OH	ALK1	EA	10	1	mg/L
Turbidity	TURB1	CA	10	1	NTU
True Colour	COLOUR	SA	10	5	units Pt-Co
TSS	TSSTDS	GRAV	10	10	mg/L
TDS	TSSTDS	GRAV	10	10	mg/L
NO2_N	FIAS_4	FIA	10	0.005	mg/L
NO2	FIAS_4	FIA	10	0.02	mg/L
NO3_N	FIAS_4	FIA	10	0.005	mg/L
NO3	FIAS_4	FIA	10	0.02	mg/L
NH3_N	NH3_N	FIA	10	0.005	mg/L
PO4_P	FIAS_4	FIA	10	0.005	mg/L
Cl	FIAS_4	FIA	10	0.1	mg/L
F	FISE1	EA	10	0.1	mg/L
Hardness	TH1	CALC.	10	0.1	mg/L
Ca_F	W108I	ICPOES	10	0.1	mg/L
K_F	W108I	ICPOES	10	0.1	mg/L
Mg_F	W108I	ICPOES	10	0.1	mg/L
Na_F	W108I	ICPOES	10	0.1	mg/L
SiO2	W108I	ICPOES	10	0.2	mg/L
SO4_F	W108I	ICPOES	10	0.1	mg/L
DF	W200M	ICPMS	10	1	--
As_T	W200M	ICPMS	10	0.05	µg/L
Cd_T	W200M	ICPMS	10	0.02	µg/L
Cr_T	W200M	ICPMS	10	0.1	µg/L
Cu_T	W200M	ICPMS	10	0.01	µg/L
Hg_T	W200M	ICPMS	10	0.02	µg/L
Ni_T	W200M	ICPMS	10	0.01	µg/L
Pb_T	W200M	ICPMS	10	0.01	µg/L
Zn_T	W200M	ICPMS	10	0.1	µg/L

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Element:	pH	EC	Alkalinity	CO3	HCO3	OH	Turbidity	True Colour	TSS
Method:	ALK1	ALK1	ALK1	ALK1	ALK1	ALK1	TURB1	COLOUR	TSSTDS
Units:	units	µS/cm	mg/L	mg/L	mg/L	mg/L	NTU	units Pt-Co	mg/L
Sample ID									
RN1726 24/2/16	8.5	1870	435	19	417	<1	<1	5	<10
SO2 24/2/16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.
SO3 24/2/16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.

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Element:	TDS	NO2_N	NO2	NO3_N	NO3	NH3_N	PO4_P	Cl	F
Method:	TSSTDS	FIAS_4	FIAS_4	FIAS_4	FIAS_4	NH3_N	FIAS_4	FIAS_4	FISE1
Units:	mg/L	mg/L							
Sample ID									
RN1726 24/2/16	1300	<0.005	<0.02	2.29	10.1	<0.005	0.045	143	1.8
SO2 24/2/16	N.A.	N.A.							
SO3 24/2/16	N.A.	N.A.							

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Element:	Hardness	Ca_F	K_F	Mg_F	Na_F	SiO2	SO4_F	DF	As_T
Method:	TH1	W108I	W108I	W108I	W108I	W108I	W108I	W200M	W200M
Units:	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	--	µg/L
Sample ID									
RN1726 24/2/16	533	101	12.8	68.1	240	32.4	392	--	N.A.
SO2 24/2/16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	10	5.25
SO3 24/2/16	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	10	1.75

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Element:	Cd_T	Cr_T	Cu_T	Hg_T	Ni_T	Pb_T	Zn_T
Method:	W200M						
Units:	µg/L						
Sample ID							
RN1726 24/2/16	N.A.						
SO2 24/2/16	0.22	1.6	7.91	<0.2	3.76	11.3	38.1
SO3 24/2/16	<0.2	<1	5.25	<0.2	0.99	3.58	24.2