RN5652

survey99

Coordinates are in AGD84.				
Heights are in AHD.				
Unit: m				
Coordinate type: Grid				
Reference ellipsoid: Australian National				
Projection set: zone53				
Station,	Easting	Northing	Height to MP	NS
BM301	398554.28	7357539.64	512.67	BM
NTLST531	404389.40	7349391.76	529.14	BM
RN10324	406708.14	7362938.83	498.53	MP is NS
RN10325	406117.13	7363574.87	500.39	500.31(Picket)
RN10669	406750.83	7362851.12	498.61	498.21
RN11462	398948.61	7356931.03	511.75	511.09
RN17235	408651.92	7359940.20	508.33	507.73
RN17244	402571.86	7352828.86	505.02	504.44
RN17245	402543.61	7352869.87	505.22	504.23
RN17246	404436.00	7349741.47	524.2	524.05
RN17333	397961.61	7358743.23	515.09	514.49
RN17334	398028.74	7358586.85	515.55	514.98
RN17335	398390.76	7357889.31	513.15	512.95
RN17336	406931.09	7362375.87	498.64	498.19
RN17337	406930.85	7362265.95	499.59	499.07
RN17338	407026.72	7361509.80	502.28	501.93
RN17339	403028.57	7363032.36	505.82	505.28
RN17391	405484.93	7356570.18	503.92	503.04
RN17392	402842.98	7356476.39	505.54	504.89
RN17393	412653.61	7363713.33	489.65	488.82
RN17394	429075.91	7365789.79	459.39	458.44
RN17436	408696.30	7361610.14	509.86	509.29
RN17437	410191.47	7358656.85	518.52	517.96
RN17438	406913.55	7362404.65	498.08	497.83
RN3410	410876.90	7365277.90	491.25	491.15
RN5652	429911.92	7367126.37	453.81	453.35
RN6989	406760.18	7362641.56	498.59	MP is NS
RN10324 No casing				
RN10669 MP height taken to steel plate.				
RN17334 MP height taken to base of cap.				
RN17336 Steel casing 0.137 below MP.				
RN17337 Steel casing 0.164 below MP.				
RN3410 Coordinates are offset 1.0 metres west.				

RESOURCE PROTECTION DIVISION
WATER CHEMISTRY LABORATORY

G.P.O BOX 990 DARWIN N.T. 0801
HUDSON FYSH AVENUE DARWIN NT 0820
Telephone: (08) 8924 6413
Fax: (08) 8924 6410

Bottle No.:	Lab Register No.:
Q233	466

Date Received in Lab:	Time Sampled:	Date Sampled:
26-5-99	1245	24-5-99

R/N No.:	Depth (m) :	Q:	Map:	Sampler:
5652		1		B. PAUL
G.S. No.:	G.H. (m):	Q:	G.R.:	

Location:	Field Temp °C:	Field pH:	Field Cond µScm⁻¹:
UNDOOLYA			
JUNCTION BORE	RSP:	Project No.: RSA 1006	

ANALYSIS - PHYSICAL

☐ pH	[4500-H⁺B]	7.1	☐ Colour (Hazen units)	[2120B]	
☐ Electrical conductivity (microsiemens/cm at 25°C)	[2510B]	9480	☐ Turbidity (NTU's)	[2130B]	
☒ Total dissolved solids (mg L⁻¹ - dried at 180° C)	[2540C]	6240	☐ Suspended solids (mg L⁻¹)	[2540D]	

ANALYSIS - CHEMICAL (mg L⁻¹)

☒ Sodium, Na	[3111B]	1630	☒ Chloride, Cl	[4500-Cl⁻ B]	2410
☐ Potassium, K	[3111B]	31	☒ Sulphate, SO_4	[G]	1400
☐ Calcium, Ca	[3111D]	327	☐ Nitrate, NO_3	[4500-NO_3^- B]	2
☐ Magnesium, Mg	[3111B]	135	☐ Bicarbonate, HCO_3	[2320B]	378
☐ Iron, (total) Fe	[3111B]	0.2	☐ Carbonate, CO_3	[2320B]	0
☒ Total Hardness (as $CaCO_3$) Calculation	[2340B]	1370	☐ Hydroxide, OH	[2320B]	0
☐ Total Hardness (as $CaCO_3$) Titration	[2340C]		☐ Fluoride, F	[4500-F^- C]	0.7
☐ Total Alkalinity (as $CaCO_3$)	[2320B]	310	☐ NaCl (calc. from chloride)		3970
☐ Silica, SiO_2	[4500-Si D]	22	☐ Dissolved Oxygen	[4500-O-C]	

ANALYSIS - ADDITIONAL (mg L⁻¹)

☐ Copper, Cu	[3111B]		☐ Manganese, Mn	[3111B]		☐ Zinc, Zn	[3111B]	
☐			☐			☐		

✣ U/S	DENOTES UNSUITABLE FOR ANALYSIS	C1	14288	460 KR	# 17
✣ I/S	DENOTES INSUFFICIENT SAMPLE				
✣ F	DENOTES FILTRATE ANALYSIS				
✣ T	DENOTES TOTAL ANALYSIS				

This report relates specifically to the "sample tested as received".

The test methods used (denoted within brackets) refer to the 1992 18th edition of "Standard Methods for the examination of Water and Wastewater", A.P.H.A. Except [G] . which refers to the method of R. Goguel, Anal. Chem. 1969, 41. 1034.

DATE: - 6 JUN 1999

CHECKED: KRoss

SIGNATORY: E. C

Boxes marked thus indicate:

☐ Levels are within the limits as quoted in the "Guidelines for Drinking Water Quality in Australia", 1987 N.H. & M.R.C. and the A.W.R.C.

☒ Levels exceed non-health related limits.

⊠ Levels exceed health related limits

POWER AND WATER AUTHORITY
WATER RESOURCES
WATER CHEMISTRY LABORATORY

G.P.O. Box 1096, Darwin N.T. 0801
Telephone: (089) 82 6413
Facsimile: (089) 82 6410

Bottle No.: QK59	Lab Register No.: 434		
Date Received in Lab: 18-10-95	Time Sampled: 1110	Date Sampled: 24-8-95	
R/N No.: 5652	Depth (m) :	Q: OUTLET	Map: SF53 E14
G.S. No.:	G.H. (m):	Q:	G.R.: 425910 E 7367040 N
Sampler: G. RIDE			
Location: UNDOOLYA STN		Field Temp °C: 27	Field pH: -
JUNCTION BORE		RSP: -	Project No.: RMA 3000

Field Cond µScm⁻¹: 8610

ANALYSIS - PHYSICAL

☐ pH	[4500-H⁺B]	7.5	☐ Colour (Hazen units)	[2120B]	
☐ Electrical conductivity (microsiemens/cm at 25°C)	[2510B]	9480	☐ Turbidity (NTU's)	[2130B]	
☒ Total dissolved solids (mg L^{-1} - dried at 180° C)	[2540C]	6200	☐ Suspended solids (mg L^{-1})	[2540D]	

ANALYSIS - CHEMICAL (mg L^{-1})

☒ Sodium, Na	[3111B]	1720	☒ Chloride, Cl	[4500-Cl^- B]	2430
☐ Potassium, K	[3111B]	35	☒ Sulphate, SO_4	[G]	1300
☐ Calcium, Ca	[3111D]	322	☐ Nitrate, NO_3	[4500-NO_3^- B]	2
☐ Magnesium, Mg	[3111B]	133	☐ Bicarbonate, HCO_3	[2320B]	379
☐ Iron, (total) Fe	[3111B]	0.1	☐ Carbonate, CO_3	[2320B]	0
☒ Total Hardness (as $CaCO_3$) Calculation	[2340B]	1350	☐ Hydroxide, OH	[2320B]	0
☐ Total Hardness (as $CaCO_3$) Titration	[2340C]		☐ Fluoride, F	[4500-F^- C]	0.7
☐ Total Alkalinity (as $CaCO_3$)	[2320B]	311	☐ NaCl (calc. from chloride)		4000
☐ Silica, SiO_2	[4500-Si D]	20	☐ Dissolved Oxygen	[4500-O-C]	

ANALYSIS - ADDITIONAL (mg L^{-1})

☐ Copper, Cu	[3111B]		☐ Manganese, Mn	[3111B]		☐ Zinc, Zn	[3111B]	
☐			☐			☐		

95-96/0426 # 9

❖ U/S DENOTES UNSUITABLE FOR ANALYSIS

❖ I/S DENOTES INSUFFICIENT SAMPLE

❖ F DENOTES FILTRATE ANALYSIS

❖ T DENOTES TOTAL ANALYSIS

This report relates specifically to the "sample tested as received".

The test methods used (denoted within brackets) refer to the 1992 18th edition of "Standard Methods for the examination of Water and Wastewater", A.P.H.A. Except [G] which refers to the method of R. Goguel, Anal. Chem. 1969, 41, 1034.

DATE: 10 JAN 1996

CHECKED: KRon

SIGNATORY: E. G

Boxes marked thus indicate:

☐ Levels are within the limits as quoted in the "Guidelines for Drinking Water Quality in Australia", 1987 N.H. & M.R.C. and the A.W.R.C.

☒ Levels exceed non-health related limits.

☒ Levels exceed health related limits

POWER AND WATER AUTHORITY
WATER RESOURCES
WATER CHEMISTRY LABORATORY

G.P.O. Box 1096, Darwin N.T. 0801
Telephone: (089) 82 6413
Facsimile: (089) 82 6410

Bottle No.:	Lab Register No.:
8K59	434

Date Received in Lab:	Time Sampled:	Date Sampled:
18-10-95	1110	24-8-95

R/N No.:	Depth (m) :	Q:	Map:	Sampler:
5652		OUTLET	SF53-14	G. RIDE
G.S. No.:	G.H. (m):	Q:	G.R.: 429106 7367040 N	

Location:	Field Temp °C:	Field pH:	Field Cond µScm⁻¹:
UNDOOLYA STN	27		8610
JUNCTION BORE	RSP:	Project No.:	RMA 3000

ANALYSIS - PHYSICAL

☐	pH	[4500-H⁺B]	7.5	☐ Colour (Hazen units) [2120B]	
☐	Electrical conductivity (microsiemens/cm at 25°C)	[2510B]	9480	☐ Turbidity (NTU's) [2130B]	
☒	Total dissolved solids (mg L⁻¹ - dried at 180° C)	[2540C]	6200	☐ Suspended solids (mg L⁻¹) [2540D]	

ANALYSIS - CHEMICAL (mg L⁻¹)

☒	Sodium, Na	[3111B]	1720	☒ Chloride, Cl [4500-Cl⁻ B]	2430
☐	Potassium, K	[3111B]	35	☒ Sulphate, SO_4 [G]	1300
☐	Calcium, Ca	[3111D]	322	☐ Nitrate, NO_3 [4500-NO_3^- B]	2
☐	Magnesium, Mg	[3111B]	133	☐ Bicarbonate, HCO_3 [2320B]	379
☐	Iron, (total) Fe	[3111B]	0.1	☐ Carbonate, CO_3 [2320B]	0
☒	Total Hardness (as $CaCO_3$) Calculation	[2340B]	1350	☐ Hydroxide, OH [2320B]	0
☐	Total Hardness (as $CaCO_3$) Titration	[2340C]		☐ Fluoride, F [4500-F^- C]	0.7
☐	Total Alkalinity (as $CaCO_3$)	[2320B]	311	☐ NaCl (calc. from chloride)	4000
☐	Silica, SiO_2	[4500-Si D]	20	☐ Dissolved Oxygen [4500-O-C]	

ANALYSIS - ADDITIONAL (mg L⁻¹)

☐	Copper, Cu	[3111B]		☐ Manganese, Mn [3111B]		☐ Zinc, Zn [3111B]	
☐				☐		☐	

95-96/0426 # 9

❖ U/S DENOTES UNSUITABLE FOR ANALYSIS

❖ I/S DENOTES INSUFFICIENT SAMPLE

❖ F DENOTES FILTRATE ANALYSIS

❖ T DENOTES TOTAL ANALYSIS

This report relates specifically to the "sample tested as received".

The test methods used (denoted within brackets) refer to the 1992 18th edition of "Standard Methods for the examination of Water and Wastewater", A.P.H.A. Except [G] which refers to the method of R. Goguel, Anal. Chem. 1969, 41. 1034.

DATE: 10 JAN 1996

CHECKED: KRon

SIGNATORY: E. G

Boxes marked thus indicate:

☐ Levels are within the limits as quoted in the "Guidelines for Drinking Water Quality in Australia", 1987 N.H. & M.R.C. and the A.W.R.C.

☒ Levels exceed non-health related limits.

☒ Levels exceed health related limits

BORE DATA - MASTER INDEX - COMPUTER INPUT SHEET

Condition OK

RN 5652 INDEX 16/814

NAME (30) JUNCTION BORE- REPLACEMENT A70/2.

LOCATION (30) 9KM EAST OF N°2 RN 11959.

CADASTRAL (35) UNDOOLYA PL 673

S/NAV GPS/TRANS✓ EL 47° H — V - CT 343 NO 480 TIME 0429

AMG ___ ZONE 53 EASTING 431245 NORTHING 7367345.

LATITUDE 23° 48' 216 LONGITUDE 134° 19' 503

LOCATION PRECISION 4

AWRC BASIN NUMBER 1006 (4)

OLD IMP GRID SF53/14-212-034. 1-250000 ALICE SPRINGS

NEW IMP GRID COMP/CONVERSION 213-025.

DISCHARGE ___ LPS. DEPTH SAMPLED ___ METHOD TANK

SAMPLE NO. ___ TIME ___ HRS.

TEMP ___ PH ___ CONDUCTIVITY 9370 OTHER ___

T-DEPTH IF MEASURED ___ METERS

SWL IF MEASURED ___ METERS- TIME ___ DATE ___

CASING/WELL ABOVE GROUND BY ___ M

BORE EQUIPPED WITH 6" OD STEEL CASING. BMK3 MONO & KUBOTA 45'X21' SX MILL NOT USED (CHECKED) 45, E/ TANK 6x HUMES TROUGHING

OLD BORE IS 20 FT STH OF MILL NO CASING ABOVE GROUND & NO INFO AVAILABLE.

COMMENTS: TANK 1/2 FULL

TAG LOCATION: MILL LEG

USED FOR: STOCK.

INSPECTING OFFICER R Marks DATE 4-4-89

Permits Issued (No Signed Copy)

	NAME	EXP DATE	LAND TENURE	USE	L/S	RN
153	EDWARD HAYES + PARTNERS	1-1-86	NTPOR 771	STOCK	1	11959
154	"	"	"	"	1	11589
155	"	"	"	"	1	3411
156	"	"	"	"	1	5652
157	"	"	"	"	2	11980
158	"	"	"	"	1	10743
159	"	"	"	"	4	10545
160	"	"	"	"	12.5	12958

DEAS

WATER ANALYSIS

DEPARTMENT OF NORTHERN AUSTRALIA

WATER RESOURCES BRANCH

WR 4/1

Laboratory Register No. 78/1174

Date received in Laboratory 18.8.78

Bottle No	Time of sampling (hrs)	Date of sampling
ZR 30	1640	2.8.78

LOCATION AND DETAILS

JUNCTION BORE UNDOOLYA STATION RN 5652 DISCHARGE 0.61ps DISCHARGE PIPE

SAMPLER: BLYTH RSP 171

ANALYSIS - PHYSICAL

pH	7.2	Colour (Hazen units)	
Specific conductance (microsiemens/cm at 25 C)	9840	Turbidity (A.P.H.A. units)	
Total dissolved solids (mg/l - by evaporation at 180°C)	6630	Suspended solids (mg/l)	

ANALYSIS - CHEMICAL (mg/l)

Total dissolved solids (by summation)	6857	Total alkalinity (as $CaCO_3$)	263
Sodium chloride (calc from chloride)	4405	Total hardness (as $CaCO_3$)	1513
Chloride, Cl	2673	Sodium, Na	1775
Sulphate, SO_4	1340	Potassium, K	60
Nitrate, NO_3	<1	Calcium, Ca	369
Bicarbonate, HCO_3	320	Magnesium, Mg	144
Carbonate, CO_3		Iron (total), Fe	8.8
Fluoride, F	1.4	Silica, SiO_2	16

ANALYSIS - ADDITIONAL (mg/l)

WATER RESOURCES BRANCH
ALICE SPRINGS
27 OCT 1978
DEPT. OF N.T.

ANALYSED BY: ....K....COOPER..... DATE ...3.../..10./..78.

REMARKS: The sample as analysed is chemically unsuitable for human consumption according to the 1971 World Health Organisation International Standards for Drinking-Water, as the total dissolved solids exceeds the maximum permissible level. SUITABLE FOR STOCK.

"Information of discussion on the analysis shown above, can be obtained by contacting the Senior Engineer, Water Quality, Water Resources Branch, Darwin".

WATER RESOURCES BRANCH

INSPECTING OFFICERS REPORT OF BORE

BORE NAME JUNCTION BORE A70/2

R.N. 5652. I.N. 16/814

NAME OF PROPERTY UNDOOLYA

MAP NO. SF53-14 GRID REF. 212034

OTHER MAPS - DRAWING NO.

LOCATION OF BORE: 9 KM EAST OFF No 2.

CONDITION OF BORE GOOD

DEPTH (if measured) _____ metres

S.W.L. (if measured) _____ metres

BORE EQUIPPED WITH 21' SX MILL. EARTH TANK 6" CRS

ESTIMATED DISCHARGE (when sampled) _____ litres per second

WATER SAMPLE Taken/~~Not Taken~~ Bottle Number ZR30

OTHER COMMENTS

Inspecting Officer R BLYTH

Date 4.8.78

N.T.A. 152

NORTHERN TERRITORY ADMINISTRATION—WATER RESOURCES BRANCH

44/9

WATER ANALYSIS

Sample No. 69/0058 Date received in Laboratory 24/1/69

Time and date of sampling 18/12/68

Location and details Alice Springs Undoolya Station Junction Bore

Alice Springs W.R.B. 16/814 ?

Analysis in parts per million— p.p.m. (unless otherwise stated)—

Appearance		Taste and odour	
Conductivity (Micromhos/cm²) at 25°C	9000	pH	7.5
Total dissolved solids	6240	Hardness, total	1340
Suspended solids		Hardness, temporary	226
Total solids		Hardness, permanent	1114

Anions—		Cations—	
Chloride	3640	Sodium	1850
Sulphate	1210	Potassium	39
Nitrate	<1	Calcium	283
Nitrite		Magnesium	143
Carbonate		Ammoniacal nitrogen	
Bicarbonate	138	Iron	11.5
Fluoride	1.2	Aluminium	
Silica	6	Selenium	
Boron		Arsenic	
Alkalinity	226	Copper	
Turbidity		Lead	
Phosphate	<1	Manganese	

Analysed by John B. Jones

Date 28/2/69

REMARKS:

The sample as analysed is chemically suitable/unsuitable for human consumption.

D Bore

F53/14-287

Undoolya Junction Bore

A 70/2

F 53/14 - 287.

Depth	Description
0 - 5	Medium silt to medium sand grain size; angular to sub-angular; biotite and clayey, ferruginous quartz sand. Rust red-brown in colour.
5 - 15	As 0 - 5 feet but tends to be coarser grained.
15 - 20	As 5 - 15 feet, but tends to be coarser grained still and more rounded.
20 - 30	As 15 - 20 feet.
30 - 50	Fine sand to fine pebble grain size; rounded to subrounded; felspathic, clayey quartz sand, with pebbles of crystalline rock fragments. Pale grey buff colour.
50 - 70	Medium sand to medium pebble grain size; sub-rounded to rounded; quartz sand. Contains biotite, muscovite tourmaline accessory. Creamy colour.
70 - 85	As 50 - 70 feet, but finer grained and better sorted, wand darker coloured.
85 - 120'	As 70 - 120 feet, but containing more clay and is reddish-brown in colour
120 - 130	Coarse silt to clay sized grains; sub-rounded to sub-angular; quartzose silty clay. Grey green colour. Slightly calcareous.
130 - 140	As 120-130 feet, with less sand and a light orange-brown colour.
140 - 155	Mottled green, buff, white clay with occasional quartz sand grains.
155 - 165	Pale yellowish green clay.
165 - 180	As 155 - 165 feet.
180 - 200	Mottled white - buff clay.

WATER RESOURCES BRANCH
6 DEC 1966
N.T. ADMINISTRATION

5750 UNDOOL/A

M.J. Freeman

N.T.A. WATER RESOURCES BRANCH

SF53-14
212034

BORE DATA SHEET

20 ft. North of Junction Bore.

NAME Junction Bore (Replacement)

INDEX No. 16/814

LOCALITY Undoolya

REG. No.... 5652

DEPTH 200 feet. 61·00 M

FILE No. ... A 70/2

CASINGS 157 feet 6"

PERFORATIONS 2 length 3/16" drilled holes
SCREENS

LOCATION / / E N

SURFACE LEVEL R.L.

B M LEVEL R.L.

DATUM

CONTRACTOR Carey & Cole

DRILLER Rex Villiers

DATE STARTED 9-11-66

DATE FINISHED 14-11-66

WATER

AQUIFERS				
DEPTH STRUCK	140-155'			
AQUIFER THICKNESS..				
STANDING WATER LEVEL	73 ft	22·26 M		
PUMP TEST G.P.H.	1,000GPH	1·25 l/s		
DRAWDOWN LEVEL..				
PUMP LEVEL				
DURATION OF TEST HOURS ...	24 hrs			
R.L. S.W.L.				
WATER TEMPERATURE °C				
TRANSMISSIBILITY				
STORAGE COEFF.....				

ANALYSES

BINOMIAL CLASSIFICATION				
T.D.S.				
CONDUCTIVITY				
TOTAL HARDNESS				
CHLORIDE				
BICARBONATE				
CARBONATE				
SULPHATE.....				
NITRATE				
FLUORIDE.....				
SODIUM.....				
POTASSIUM				
CALCIUM				
MAGNESIUM				

REG. ANAL. No.....

EQUIPMENT

REMARKS

Fair Quality

STRATA SECTION

DEPTH FEET	CASING	AQU.	SPEC	STRATA
5				Topsoil
15				Sandy Clay
20				Sand
30				Gravelly Clay
50				Sand
70				Gravel
95				Gravelly Clay
120				Brown Gravelly Clay
130				Yellow Clay
140				Yellow Clay
155				Jointed Sandstone & Clay
165				Green Clay
190				Green Sandy Clay
200				Green Clay

SM—10.64 1556

64/204

NORTHERN TERRITORY ADMINISTRAT

CONTROL OF WATERS ORDINANCE 1938.

WATER RESOURCES BRANCH

RN005652

8/W -

REGULATION 8:

FINAL STATEMENT OF BORE.

RN. 5652 14-0N
IN 16/8W 2/20-0E
REF. NO A 70/2

BORE LOG.

FROM	TO	DESCRIPTION OF STRATA
0	5	TOPSOIL
5	15	SANDY CLAY
15	20	SAND
20	30	GRAVELLY CLAY
30	50	SAND
50	70	GRAVEL
70	85	GRAVELLY CLAY
85	120	BROWN GRAVELLY CLAY
120	130	YELLOW CLAY
130	140	YELLOW CLAY
140	155	JOINTED SANDSTONE & CLAY
155	165	GREEN CLAY
165	180	GREEN SANDY CLAY
180	200	GREEN CLAY

LOCATION OF BORE: (or supply sketch on back hereof.)

20 feet ~~miles~~. (N) NE, S SE, E NW, W SW of (b) Junction Bore

(a) Circle appropriate direction.
(b) Use known point such as existing bore, homestead, outstation, etc.

ADDITIONAL INFORMATION OF INTEREST.

Wellers

Samples of strata and water supplies have been / will be left at the following Trading Place

B.M.R ALICE.

FOR OFFICE USE ONLY.

28 FEB 1967
N.T. ADMINISTRATION

Name of Bore.
JUNCTION BORE (REPLACEMENT)

Name of Property.
UNDOOLYA

Description of Property.
CATTLE STATION

Name of Owner.
MR. E. HAYES

Name of Contractor.
GOREY & COLE

Name of Driller.
REX VILLIERS

Date of Commencement.
9 - 11 - 66

Date of Completion.
14 - 11 - 66

Total Depth: 200 feet

Particulars of Casing.
~~157~~ 157 feet 6"

Particulars of Perforations or Screens.
2 lengths 3/16" drilled holes

WATER	1st Supply	2nd Supply	3rd Supp
Struck at	140 - 155'		
Standing water level	73 ft.		
Pumping supply. GPH.	1000 GPH		
Duration of Pump Test	24 hrs.		
Water level during test	-		
Quality - good, fair or bad.	FAIR.		

POWER AND WATER AUTHORITY
WATER RESOURCES
WATER CHEMISTRY LABORATORY

G.P.O. Box 1096, Darwin N.T. 0801
Telephone: (089) 82 6413
Facsimile: (089) 82 6410

Bottle No.:	Lab Register No.:
QK59	434

Date Received in Lab:	Time Sampled:	Date Sampled:
18-10-95	1110	24-8-95

R/N No.:	Depth (m) :	Q:	Map:	Sampler:
5652		OUTLET	SF53-14	G. RIDE
G.S. No.:	G.H. (m):	Q:	G.R.: 429 10E 7367040 N	

Location:	Field Temp °C:	Field pH:	Field Cond µScm⁻¹:
VNDOOLYA STN	27		8610
JUNCTION BORE	RSP:	Project No.:	RMA 3000

ANALYSIS - PHYSICAL

☐ pH	[4500-H⁺B]	7.5	☐ Colour (Hazen units)	[2120B]	
☐ Electrical conductivity (microsiemens/cm at 25°C)	[2510B]	9480	☐ Turbidity (NTU's)	[2130B]	
☒ Total dissolved solids (mg L⁻¹ - dried at 180° C)	[2540C]	6200	☐ Suspended solids (mg L⁻¹)	[2540D]	

ANALYSIS - CHEMICAL (mg L⁻¹)

☒ Sodium, Na	[3111B]	1720	☒ Chloride, Cl	[4500-Cl⁻ B]	2430
☐ Potassium, K	[3111B]	35	☒ Sulphate, SO_4	[G]	1300
☐ Calcium, Ca	[3111D]	322	☐ Nitrate, NO_3	[4500-NO_3^- B]	2
☐ Magnesium, Mg	[3111B]	133	☐ Bicarbonate, HCO_3	[2320B]	379
☐ Iron, (total) Fe	[3111B]	0.1	☐ Carbonate, CO_3	[2320B]	0
☒ Total Hardness (as $CaCO_3$) Calculation	[2340B]	1350	☐ Hydroxide, OH	[2320B]	0
☐ Total Hardness (as $CaCO_3$) Titration	[2340C]		☐ Fluoride, F	[4500-F^- C]	0.7
☐ Total Alkalinity (as $CaCO_3$)	[2320B]	311	☐ NaCl (calc. from chloride)		4000
☐ Silica, SiO_2	[4500-Si D]	20	☐ Dissolved Oxygen	[4500-O-C]	

ANALYSIS - ADDITIONAL (mg L⁻¹)

☐ Copper, Cu	[3111B]		☐ Manganese, Mn	[3111B]		☐ Zinc, Zn	[3111B]	
☐			☐			☐		

95-96/0426 # 9

❖ U/S DENOTES UNSUITABLE FOR ANALYSIS

❖ I/S DENOTES INSUFFICIENT SAMPLE

❖ F DENOTES FILTRATE ANALYSIS

❖ T DENOTES TOTAL ANALYSIS

This report relates specifically to the "sample tested as received".

The test methods used (denoted within brackets) refer to the 1992 18th edition of "Standard Methods for the examination of Water and Wastewater", A.P.H.A. Except [G] which refers to the method of R. Goguel, Anal. Chem. 1969, 41. 1034.

DATE: 10 JAN 1996

CHECKED: KRon

SIGNATORY: E G

Boxes marked thus indicate:
- ☐ Levels are within the limits as quoted in the "Guidelines for Drinking Water Quality in Australia". 1987 N.H. & M.R.C. and the A.W.R.C.
- ☒ Levels exceed non-health related limits.
- ☒ Levels exceed health related limits

RECEIVED
12 JAN 1996
P.A.W.A.–W.R.D.

WATER ANALYSIS

DEPARTMENT OF NORTHERN AUSTRALIA

WATER RESOURCES BRANCH

Laboratory Register No. 78/1174

Date of Reporting 18.8.78

AR 471 | Field No. ZR 30 | Time of Sampling hrs 1640 | Date of Sampling 2.8.78

LOCATION AND DETAILS

JUNCTION BORE UNDOOLYA STATION RN 5652 DISCHARGE 0.6lps DISCHARGE PIPE

16/8/14 SAMPLER: BLYTH RSP 171

ANALYSIS - PHYSICAL

pH	7.2	Colour (Hazen units)	
Specific conductance (microsiemens/cm at 25 C)	9840	Turbidity (as P.H.A. units)	
Total dissolved solids (mg/l - by evaporation at 180°C)	6630	Suspended solids (mg/l)	

ANALYSIS CHEMICAL (mg/l)

Total dissolved solids (by summation)	6857	Total alkalinity (as $CaCO_3$)	263
Sodium chloride (calc from chloride)	4405	Total hardness (as $CaCO_3$)	1513
Chloride, Cl	2673	Sodium, Na	1775
Sulphate, SO_4	1340	Potassium, K	60
Nitrate, NO_3	<1	Calcium, Ca	369
Bicarbonate, HCO_3	320	Magnesium, Mg	144
Carbonate, CO_3		Iron (total), Fe	8.8
Fluoride, F	1.4	Silica, SiO_2	16

ANALYSIS - ADDITIONAL (mg/l)

RECEIVED
31 OCT 1978

ANALYSED BY: K. COOPER DATE 3.10.78.

REMARKS: The sample as analysed is chemically unsuitable for human consumption according to the 1971 World Health Organisation International Standards for Drinking-Water, as the total dissolved solids exceeds the maximum permissible level. SUITABLE FOR STOCK.

"Information of discussion on the analyses ... of the above ... Senior Engineer, Water Quality, Water Resources Branch, Darwin".

N.T.A. 152

NORTHERN TERRITORY ADMINISTRATION—WATER RESOURCES BRANCH

WATER ANALYSIS

Sample No. 69/0058 Date received in Laboratory 24/1/69

Time and date of sampling 18/12/68

Location and details Alice Springs Undoolya Station Junction Bore

Alice Springs W.R.B.

16/814

Analysis in parts per million— p.p.m. (unless otherwise stated)—

Appearance		Taste and odour	
Conductivity (Micromhos/cm²) at 25°C	9000	pH	7.5
Total dissolved solids	6240	Hardness, total	1340
Suspended solids		Hardness, temporary	226
Total solids		Hardness, permanent	1114

Anions—		Cations—	
Chloride	3640	Sodium	1850
Sulphate	1210	Potassium	39
Nitrate	<1	Calcium	283
Nitrite		Magnesium	143
Carbonate		Ammoniacal nitrogen	
Bicarbonate	138	Iron	11.5
Fluoride	1.2	Aluminium	
Silica	6	Selenium	
Boron		Arsenic	
Alkalinity	226	Copper	
Turbidity		Lead	
Phosphate	<1	Manganese	

Analysed by John B. Jones

Date 28/2/69

REMARKS: The sample as analysed is chemically suitable/unsuitable for human consumption.