

Department of Mines W.A.
CHEMISTRY CENTRE
125 Hay St., East Perth
Western Australia 6004
Telephone: (09) 325 5544
Facsimile: (09) 325 7767

Conservation & Land Management
50 Hayman Road
Como W.A. 6152

12 water sample(s), received 1 Oct 91 - Lab number(s) 91XX4452 to 4463

ATN ANDREW STOREY

Sample	E-1
Sampled	1000 25 Sep 91
Lab number	91XX 4452
pH	6.2
Colour (T.C.U.)	630
Turbidity (N.T.U.)	1.0
Conductivity (mS/m at 25C)	17.1

	mg/l
Total Diss. Solids (calc @ 180C)	100
Total Hardness (as CaCO3)	31
Total Alkalinity (as CaCO3)	15
Calcium, Ca	4
Magnesium, Mg	5
Sodium, Na	22
Potassium, K	5
Carbonate, CO3	< 2
Bicarbonate, HCO3	18
Chloride, Cl	38
Sulphate, SO4	4
Nitrate, NO3	4
Silica, SiO2	4
Fluoride, F	0.1
Iron, Fe	1.1
Total phosphorus, P	0.20
Chlorophyll a	0.008
Total Persulphate Nitrogen, N	3.7
Phaeophytin	< 0.002

Sample	E-2
Sampled	1000 25 Sep 91
Lab number	91XX 4453
pH	6.1
Colour (T.C.U.)	650
Turbidity (N.T.U.)	1.0
Conductivity (mS/m at 25C)	16.7

mg/l

Total Diss. Solids (calc @ 180C)	90
Total Hardness (as CaCO3)	31
Total Alkalinity (as CaCO3)	11
Calcium, Ca	4
Magnesium, Mg	5
Sodium, Na	22
Potassium, K	4
Carbonate, CO3	< 2
Bicarbonate, HCO3	14
Chloride, Cl	38
Sulphate, SO4	5
Nitrate, NO3	4
Silica, SiO2	4
Fluoride, F	< 0.1
Iron, Fe	0.94
Total phosphorus, P	0.17
Chlorophyll a	0.010
Total Persulphate Nitrogen, N	3.6
Phaeophytin	< 0.002

Sample	E-3
Sampled	1000 25 Sep 91
Lab number	91XX 4454
pH	6.9
Colour (T.C.U.)	980
Turbidity (N.T.U.)	1.0
Conductivity (mS/m at 25C)	16.8

mg/l

Total Diss. Solids (calc @ 180C)	100
Total Hardness (as CaCO ₃)	36
Total Alkalinity (as CaCO ₃)	24

Calcium,	Ca	6
Magnesium,	Mg	5
Sodium,	Na	20
Potassium,	K	4

Carbonate,	CO ₃	< 2
Bicarbonate,	HCO ₃	29
Chloride,	Cl	35
Sulphate,	SO ₄	5
Nitrate,	NO ₃	< 1

Silica,	SiO ₂	6
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Fluoride,	F	< 0.1
Iron,	Fe	2.1
Total phosphorus, P		0.34
Chlorophyll a		0.005
Total Persulphate Nitrogen, N		5.7
Phaeophytin		0.007

Sample	NW-1
Sampled	1000 25 Sep 91
Lab number	91XX 4455
pH	6.9
Colour (T.C.U.)	1400
Turbidity (N.T.U.)	1.1
Conductivity (mS/m at 25C)	38.7

mg/l

Total Diss. Solids (calc @ 180C)	210
Total Hardness (as CaCO3)	84
Total Alkalinity (as CaCO3)	51

Calcium,	Ca	14
Magnesium,	Mg	12
Sodium,	Na	50
Potassium,	K	14

Carbonate,	CO3	< 2
Bicarbonate,	HCO3	62
Chloride,	Cl	78
Sulphate,	SO4	10
Nitrate,	NO3	2

Silica,	SiO2	1
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Fluoride,	F	< 0.1
Iron,	Fe	1.6
Total phosphorus, P		5.5
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		5.7
Phaeophytin		0.002

Sample	NW-2
Sampled	1000 25 Sep 91
Lab number	91XX 4456
pH	7.4
Colour (T.C.U.)	1500
Turbidity (N.T.U.)	0.9
Conductivity (mS/m at 25C)	38.0

mg/l

Total Diss. Solids (calc @ 180C)	210
Total Hardness (as CaCO3)	84
Total Alkalinity (as CaCO3)	57

Calcium,	Ca	14
Magnesium,	Mg	12
Sodium,	Na	48
Potassium,	K	14

Carbonate,	CO3	< 2
Bicarbonate,	HCO3	69
Chloride,	Cl	76
Sulphate,	SO4	9
Nitrate,	NO3	1

Silica,	SiO2	4
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Fluoride,	F	< 0.1
Iron,	Fe	1.5
Total phosphorus, P		5.3
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		5.2
Phaeophytin		< 0.002

Sample	NW-3
Sampled	1000 25 Sep 91
Lab number	91XX 4457
pH	6.5
Colour (T.C.U.)	1400
Turbidity (N.T.U.)	0.9
Conductivity (mS/m at 25C)	36.7

		mg/l
Total Diss. Solids (calc @ 180C)		210
Total Hardness (as CaCO3)		84
Total Alkalinity (as CaCO3)		51
Calcium, Ca		14
Magnesium, Mg		12
Sodium, Na		48
Potassium, K		14
Carbonate, CO3		< 2
Bicarbonate, HCO3		62
Chloride, Cl		73
Sulphate, SO4		9
Nitrate, NO3		< 1
Silica, SiO2		4
Fluoride, F		< 0.1
Iron, Fe		1.7
Total phosphorus, P		4.9
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		4.8
Phaeophytin		< 0.002

Sample	SW-1
Sampled	1000 25 Sep 91
Lab number	91XX 4458
pH	5.0
Colour (T.C.U.)	4100
Turbidity (N.T.U.)	< 0.1
Conductivity (mS/m at 25C)	60.1

	mg/l
Total Diss. Solids (calc @ 180C)	330
Total Hardness (as CaCO3)	76
Total Alkalinity (as CaCO3)	10
Calcium, Ca	9
Magnesium, Mg	13
Sodium, Na	98
Potassium, K	4
Carbonate, CO3	< 2
Bicarbonate, HCO3	12
Chloride, Cl	163
Sulphate, SO4	19
Nitrate, NO3	1
Silica, SiO2	14
Fluoride, F	0.2
Iron, Fe	5.2
Total phosphorus, P	0.08
Chlorophyll a	< 0.002
Total Persulphate Nitrogen, N	5.9
Phaeophytin	< 0.002

Sample	SW-2
Sampled	1000 25 Sep 91
Lab number	91XX 4459
pH	5.0
Colour (T.C.U.)	4000
Turbidity (N.T.U.)	0.1
Conductivity (mS/m at 25C)	59.7

mg/l

Total Diss. Solids (calc @ 180C)	330
Total Hardness (as CaCO3)	80
Total Alkalinity (as CaCO3)	11

Calcium,	Ca	9
Magnesium,	Mg	14
Sodium,	Na	98
Potassium,	K	4

Carbonate,	CO3	< 2
Bicarbonate,	HCO3	13
Chloride,	Cl	162
Sulphate,	SO4	19
Nitrate,	NO3	1

Silica,	SiO2	14
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Fluoride,	F	0.2
Iron,	Fe	5.3
Total phosphorus, P		0.10
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		6.1
Phaeophytin		< 0.002

Sample	SW-3
Sampled	1000 25 Sep 91
Lab number	91XX 4460
pH	6.3
Colour (T.C.U.)	4000
Turbidity (N.T.U.)	< 0.1
Conductivity (mS/m at 25C)	59.9

mg/l

Total Diss. Solids (calc @ 180C)	330
Total Hardness (as CaCO3)	76
Total Alkalinity (as CaCO3)	10

Calcium,	Ca	9
Magnesium,	Mg	13
Sodium,	Na	98
Potassium,	K	4

Carbonate,	CO3	< 2
Bicarbonate,	HCO3	12
Chloride,	Cl	164
Sulphate,	SO4	19
Nitrate,	NO3	1

Silica,	SiO2	15
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Fluoride,	F	0.2
Iron,	Fe	5.0
Total phosphorus, P		0.08
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		5.5
Phaeophytin		< 0.002

Sample	EB-1
Sampled	1000 25 Sep 91
Lab number	91XX 4461
pH	6.5
Colour (T.C.U.)	60
Turbidity (N.T.U.)	21
Conductivity (mS/m at 25C)	9.5

	mg/l
Total Diss. Solids (calc @ 180C)	60
Total Hardness (as CaCO3)	13
Total Alkalinity (as CaCO3)	14
Calcium, Ca	2
Magnesium, Mg	2
Sodium, Na	15
Potassium, K	2
Carbonate, CO3	< 2
Bicarbonate, HCO3	17
Chloride, Cl	20
Sulphate, SO4	2
Nitrate, NO3	< 1
Silica, SiO2	3
Fluoride, F	< 0.1
Iron, Fe	0.36
Total phosphorus, P	0.10
Chlorophyll a	< 0.002
Total Persulphate Nitrogen, N	0.54
Phaeophytin	< 0.002

Sample	EB-2
Sampled	1000 25 Sep 91
Lab number	91XX 4462
pH	7.0
Colour (T.C.U.)	30
Turbidity (N.T.U.)	23
Conductivity (mS/m at 25C)	11.0

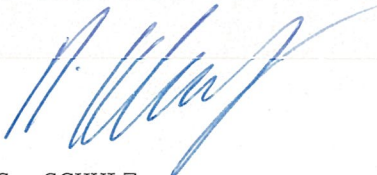
mg/l

Total Diss. Solids (calc @ 180C)	70
Total Hardness (as CaCO3)	16
Total Alkalinity (as CaCO3)	24
Calcium, Ca	3
Magnesium, Mg	2
Sodium, Na	15
Potassium, K	2
Carbonate, CO3	< 2
Bicarbonate, HCO3	29
Chloride, Cl	22
Sulphate, SO4	3
Nitrate, NO3	< 1
Silica, SiO2	4
Fluoride, F	< 0.1
Iron, Fe	0.53
Total phosphorus, P	0.03
Chlorophyll a	< 0.002
Total Persulphate Nitrogen, N	0.49
Phaeophytin	< 0.002

Sample	EB-3
Sampled	1000 25 Sep 91
Lab number	91XX 4463
pH	6.5
Colour (T.C.U.)	35
Turbidity (N.T.U.)	35
Conductivity (mS/m at 25C)	10.7

		mg/l
Total Diss. Solids (calc @ 180C)		70
Total Hardness (as CaCO ₃)		16
Total Alkalinity (as CaCO ₃)		14
Calcium, Ca		3
Magnesium, Mg		2
Sodium, Na		16
Potassium, K		2
Carbonate, CO ₃		< 2
Bicarbonate, HCO ₃		17
Chloride, Cl		21
Sulphate, SO ₄		4
Nitrate, NO ₃		< 1
Silica, SiO ₂		11
Fluoride, F		< 0.1
Iron, Fe		2.0
Total phosphorus, P		0.05
Chlorophyll a		< 0.002
Total Persulphate Nitrogen, N		0.56
Phaeophytin		< 0.002

Results reported apply only to samples as received.
 Sample Lab. Nos. 91XX4455-4460 are slightly outside the normal acceptance criteria for ionic balance.


 R.S. SCHULZ
 PRINCIPAL CHEMIST
 ENVIRONMENTAL CHEMISTRY LABORATORY

NON CHARGEABLE COST \$ 1392.00

Department of Mines W.A.
CHEMISTRY CENTRE
125 Hay St., East Perth
Western Australia 6004
Telephone: (09) 325 5544
Facsimile: (09) 325 7767

CONSERVATION & LAND MANAGEMENT
5 DUNDEBAR ROAD
WANNEROO WA 6065

Conservation & Land Management
50 Hayman Road
Como W.A. 6152

12 water sample(s), received 1 Oct 91 - Lab number(s) 91XX4452 to 4463

ATN ANDREW STOREY

Lab No	Sampled	Sample	Colour APHA units	Turbidity NTU	Total Phosphorus P mg/l	Chlorophyll "a" mg/l	Total Pers. Nitrogen N mg/l	Phaeophytin mg/l
91XX								
4452	1000 25-Sep-91	E-1	630	1.0	0.20	0.008	3.7	< 0.002
4453	1000 25-Sep-91	E-2	650	1.0	0.17	0.010	3.6	< 0.002
4454	1000 25-Sep-91	E-3	980	1.0	0.34	0.005	5.7	0.007
4455	1000 25-Sep-91	NW-1	1400	1.1	5.5	< 0.002	5.7	0.002
4456	1000 25-Sep-91	NW-2	1500	0.9	5.3	< 0.002	5.2	< 0.002
4457	1000 25-Sep-91	NW-3	1400	0.9	4.9	< 0.002	4.8	< 0.002
4458	1000 25-Sep-91	SW-1	4100	< 0.1	0.08	< 0.002	5.9	< 0.002
4459	1000 25-Sep-91	SW-2	4000	0.1	0.10	< 0.002	6.1	< 0.002
4460	1000 25-Sep-91	SW-3	4000	< 0.1	0.08	< 0.002	5.5	< 0.002
4461	1000 25-Sep-91	EB-1	60	21	0.10	< 0.002	0.54	< 0.002
4462	1000 25-Sep-91	EB-2	30	23	0.03	< 0.002	0.49	< 0.002
4463	1000 25-Sep-91	EB-3	35	35	0.05	< 0.002	0.56	< 0.002


R.S. Schulz
Principal Chemist
Environmental Chemistry Laboratory
8 Nov 91

NON CHARGEABLE COST \$ 1424.00