DEPARTMENT OF
~~NATIONAL RESOURCES~~
NATIONAL DEVELOPMENT

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Record 1979/31

MISCELLANEOUS CHEMICAL, PETROGRAPHIC AND MINERAGRAPHIC INVESTIGATIONS CARRIED OUT IN THE GEOCHEMICAL LABORATORY

JANUARY-DECEMBER 1978

Compiled

by

J. FITZSIMMONS

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The miscellaneous chemical, petrographic, and mineragraphic investigations carried out in the geological laboratory, Bureau of Mineral Resources, during 1978 have been collected together and are presented in this Record as a numbered series of short reports.

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Laboratory Report No. 1

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ... 12. 1.78
Date of testing ... 2. 2.78

Sampling points	Sp. Cond. (umho/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	642	8.5	0.03	0.13	0.004 M
Honeysuckle Crk (F2)	320	8.6	ND	0.03	
Lake Burley Griffin at					
Scrivener Dam (H4)	265	8.2	0.01	0.06	55.855 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 32

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ... 25. 1. 78

Date of testing ... 2. 2. 78

Sampling points	Sp. Cond. (umho/cm)	pH	Zn (ppm) dissolved)	Zn (ppm) Total)	Flow
Molonglo River at Burbong Weir (D2) (410705)	695	8.1	0.09	0.24	0.00 M
Honeysuckel Crk (F2)	270	7.3	0.03	0.05	
Lake Burley Griffin at Scrivener Dam (H4)	260	8.7	ND	ND	555.975 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 33

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	3.1. 78
Sp. Cond. (20°C)	-	5,200 umho/cm
pH	-	8.9
T.D.S. (180°C)	-	3320 ppm

Laboratory Report No. 4

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	2.2.78
Date of testing	-	2.2.78
Sp. Cond. (24°C)	-	5,150 umho/cm
pH	-	9.0
T.D.S. (180°C)	-	3,100 ppm

Laboratory Report No. 5

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ... 8. 2. 78

Date of testing ... 10. 2. 78

Sampling points	Sp. Cond.	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	670	7.2	22.46	21.92	0.072 m
Honeysuckle Crk (F2)	470	7.5	0.10	0.25	
Lake Burley Griffin at					
Scrivener Dam (H4)	275	8.0	ND	0.01	555.99 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 6

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Friffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ... 14. 2. 78

Date of testing ... 15. 2. 78

Sampling points	Sp. Cond. (umho/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2)	650	7.3	16.06	16.18	0.042 m
Honeysuckle Crk (F2)	378	7.7	0.08	0.3	
Lake Burley Griffin at Scrivener Dam (H4)	275	8.4	ND	0.02	577.980 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 7

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 23/2/78

Date of testing 23/2/78

Sampling points	Sp. Cond. (umho/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	715	7.6	9.02	8.92	0.00 m
Honeysuckle Crk (F2)	460	7.4	0.02	0.05	
Lake Burley Griffin at					
Scrivener Dam (H4)	282	8.3	ND	ND	555.954 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 8

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. FITZSIMMONS

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1/3/78
Date of testing	-	1/3/78
Sp. Cond. (25°C)	-	5,700 uS/cm
pH	-	8.9
T.D.S. (180°C)	-	3830 ppm

Laboratory Report No. 9

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS & T. SLEZAK

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 8/3/78

Date of testing 8/3/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	750	7.7	2.48	3.13	0.000M
Honeysuckle Crk (F2)	410	7.7	0.02	0.02	
Lake Burley Griffin at					
Scrivener Dam (H4)	298	8.3	ND	0.01	555.915M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 10

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples are listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination. of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ..

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	71	6.7	0.05	0.55	1.028 M
Honeysuckle Crk (F2)	80	6.9	0.03	0.41	
Lake Burley Griffin at Scrivener Dam (H4)	260	7.9	ND	0.05	555.926M

Rising State sampling -

Burbong Weir (D2)

Date of Sampling 21.3.78

Date of Testing 23.3.78

Sp. cond. uS/cm	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
50	6.7	0.09	1.04	2.84 M
80	6.8	0.23	4.24	3.07 M
64	6.6	0.09	0.83	3.27 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 11

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 6.4.78

Date of testing 7.4.78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	155	8.7	0.26	0.63	0.35 M
Honeysuckle Crk (F2)	200	7.6	0.11	0.56	
Lake Burley Griffin at					
Scrivener Dam (H4)	180	7.4	0.01	0.07	555.934 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 12

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	3/4/78
Date of testing	-	12/4/78
Sp. Cond. (23°C)	-	4,500 uS/cm
pH	-	8.90
T.D.S. (180°C)	-	3150 ppm

Laboratory Report No. 13

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 17.4.78

Date of testing 18.4.78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	165	7.3	0.32	0.53	0.20 M
Honeysuckle Crk (F2)	215	7.3	0.17	0.34	
Lake Burley Griffin at					
Scrivener Dam (H4)	170	7.4	0.02	0.05	555.928 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 14

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1.5.78
Date of testing	-	2.5.78
Sp. Cond. (23°C)	-	4,820 uS/cm
pH	-	8.9
T.D.S. (180°C)	-	3417 ppm

Laboratory Report No. 15

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 3.5.78

Date of testing 11.5.78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	175	7.7	0.30	0.50	0.128 M
Honeysuckle Crk (F2)	275	7.0	0.10	0.40	
Lake Burley Griffin at					
Scrivener Dam (H4)	150	5.4	0.02	0.25	555.930 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 16

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 18/5/78
Date of testing 24/5/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	244	7.5	0.35	0.41	0.124 M
Honeysuckle Crk (F2)	308	7.3	0.14	0.18	
Lake Burley Griffin at					
Scrivener Dam (H4)	164	7.5	0.02	0.05	555.930 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 17

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. FITZSIMMONS

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1.6.78
Date of testing	-	3.6.78
Sp. Cond. (21°C)	-	4,600 uS/cm
pH	-	8.6
T.D.S. (180°C)	-	3,068 ppm

Laboratory Report No. 18

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 1/6/78

Date of testing .. 3/6/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	130	7.5	0.24	0.38	0.658 m
Honeysuckle Crk (F2)	150	7.5	0.18	0.24	
Lake Burley Griffin at					
Scrivener Dam (H4)	165	7.4	ND	0.05	555.936 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 19

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling. 14/6/78

Sampling points	Sp. Cond. uS/cm	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	140	7.4	0.29	0.36	0.442M
Honeysuckle Crk (F2)	115	7.4	0.08	0.13	
Lake Burley Griffin at					
Scrivener Dam (H4)	138	7.4	0.13	0.22	555.935M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 20

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acieified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee and Mine Waste Pollution in the Molonglo River.

Date of sampling. 28/6/78

Sampling points 30/6/78

	Sp. Cond. uS/cm	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	155	7.4	0.26	0.30	0.478 M
Honeysuckle Crk (F2)	115	7.3	0.05	0.08	
Lake Burley Griffin at					
Scrivener Dam (H4)	105	7.2	0.06	0.08	555.938 M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No.21 .

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, NSW, was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	3.7.78
Date of testing	-	11.7.78
Sp. Cond. (25°C)	-	2,900 uS/cm
pH	-	7.9
T.D.S. (180°C)	-	1690 ppm

Laboratory Report No. 22

Zinc Content of Molonglo River Water

by

J. Fitzsimmons, T. Slezak & D. Johnstone

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 12.7.78
18.7.78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbon Weir (D2) (410705)	160	7.6	0.23	0.29	0.416
Honeysuckle Crk (F2)	120	7.5	0.06	0.09	
Lake Burley Griffin at					
Scrivener Dam (H4)	115	7.6	0.05	0.08	555.928

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 23

ZINC CONTENT OF MOLONGLO RIVER WATER

by

J. Fitzsimmons & T. Shezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 26/7/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	160	7.8	0.30	0.33	0.534m.
Honeysuckle Crk (F2)	118	7.4	0.10	0.14	
Lake Burley Griffin at					
Scrivener Dam (H4)	120	7.5	0.05	0.07	555.946m.

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 24

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1/8/78
Date of testing	-	1/8/78
Sp. Cond. (22°C)	-	3,900 uS/cm
pH	-	8.7
T.D.S. (180°C)	-	2,650 ppm

Laboratory Report No. 25

Zinc Content of Molonglo River Water

by

J. Fitzsimmons & T. Slezak

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee and Mine Waste Pollution in the Molonglo River.

Date of sampling 9/8/78

Date of testing 15/8/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	260	8.3	0.20	0.25	0.365m
Honeysuckle Crk (F2)	155	7.8	0.06	0.08	
Lake Burley Griffin at					
Scrivener Dam (H4)	125	7.4	0.05	0.07	555.925m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 26

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 23/8/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	250	7.2	0.19	0.27	0.185 M
Honeysuckle Crk (F2)	125	7.6	0.03	0.05	
Lake Burley Griffin at					
Scrivener Dam (H4)	115	8.3	0.04	0.06	555.93 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 27.

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. FITZSIMMONS

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1/9/78
Sp. Cond. (23 °C)	-	3,700 uS/cm
pH	-	8.3
T.D.S. (180°C)	-	2,675 ppm.

Laboratory Report No. 28

Zinc Content of Molonglo River Water

by

J. Fitzsimmons.

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling 7/9/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Rising stage samples Molonglo River at Burbong Weir (D2) (410705)					
time					
18.20	85	7.8	0.12	0.64	1.74 m
20.00	80	7.6	0.16	0.67	2.27 m
21.30	80	7.5	0.17	1.03	1.86 m
22.40	76	7.6	0.12	0.69	2.00 m
23.10	75	7.7	0.20	0.98	2.13 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 29

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. Fitzsimmons

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	29/9/78
Sp. Cond. (23°C)	-	1110 uS/cm
pH	-	8.3
T.D.S. (180°C)	-	2246 ppm

Laboratory Report No. 30

Zinc Content of Molonglo River Water

by

J. Fitzsimmons

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling ... 27/9/78

Date of testing ... 10/10/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	232	8.8	0.11	0.23	0.677 m
Honeysuckle Crk (F2)	120	8.6	0.03	0.10	
Lake Burley Griffin at					
Scrivener Dam (H4)	100	7.6	0.03	0.05	555.950 m.

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 31

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 11/10/78

Date of testing .. 24/11/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	275	9.0	0.02	0.20	0.240 m
Honeysuckle Crk (F2)	135	8.7	ND	0.06	
Lake Burley Griffin at					
Scrivener Dam (H4)	127	9.0	ND	0.04	555.925

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 32

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 25/10/78

Date of testing .. 22/11/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	265	8.6	0.04	0.19	0.172 m
Honeysuckle Crk (F2)	150	8.5	0.01	0.05	
Lake Burley Griffin at					
Scrivener Dam (H4)	145	8.9	0.01	0.05	555.920 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 33

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 8/11/78

Date of testing .. 24/11/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	240	8.5	0.09	0.18	0.214 m
Honeysuckle Crk (F2)	140	8.2	0.03	0.07	
Lake Burley Griffin at					
Scrivener Dam (H4)	152	8.1	0.01	0.03	555.930 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 34.

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. FITZSIMMONS

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1.11.78
Date of testing	-	22/11/78
Sp. Cond. (30°C)	-	4,000 uS/cm
pH	-	9.3
T.D.S. (180°C)	-	2342 ppm

Laboratory Report No. 35

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 22/11/78

Date of testing .. 24/11/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	205	8.6	0.12	0.17	0.210 m
Honeysuckle Crk (F2)	110	8.4	0.02	0.05	
Lake Burley Griffin at					
Scrivener Dam (H4)	140	8.1	0.01	0.03	555.930 m

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 36

ANALYSIS OF LAKE GEORGE WATER SAMPLES

by

J. FITZSIMMONS

A sample of water from Lake George, N.S.W., was submitted by A.W. Schuett for determination of specific conductance, pH and total dissolved solids (180°C).

Date of sampling	-	1/12/78
Date of testing	-	5/12/78
Sp. Cond. (23°C)	-	1,250 uS/cm
pH	-	8.9
T.D.S. (180°C)	-	2465 ppm

Laboratory Report No. 37

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 6/12/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	235	7.8	0.03	0.12	0.229M
Honeysuckle Crk (F2)	125	7.5	0.03	0.06	
Lake Burley Griffin at					
Scrivener Dam (H4)	155	7.9	0.01	0.04	555.931M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.

Laboratory Report No. 38

Zinc Content of Molonglo River Water

by

J. FITZSIMMONS

The following results were obtained for the determination of specific conductance at 20°C, pH, dissolved zinc and total zinc on water samples as listed below from the Molonglo River/Lake Burley Griffin system. All samples were acidified with hydrochloric acid prior to the determination of total zinc.

Samples were collected by the Department of Housing and Construction for the Joint Government Technical Committee on Mine Waste Pollution in the Molonglo River.

Date of sampling .. 20/12/78
Date of testing .. 22/12/78

Sampling points	Sp. Cond. (uS/cm)	pH	Zn (ppm) (dissolved)	Zn (ppm) (Total)	Flow
Molonglo River at					
Burbong Weir (D2) (410705)	260	8.0	0.03	0.15	0.112M
Honeysuckle Crk (F2)	110	7.9	ND	0.02	
Lake Burley Griffin at					
Scrivener Dam (H4)	160	8.1	0.02	0.09	555.930M

Bracketed numbers are Department of Housing and Construction stream gauge reference numbers.