

**Jun-2010 Report**

**GVS&DD MONITORING RESULTS FOR OPERATING CERTIFICATE  
 SAMPLING LOCATION: IONA ISLAND WWTP EFFLUENT  
 Operational Certificate ME: 00023, Issued April 23, 2004**

Site Reference No: E100992

DATE year/month/day	FLOW M <sup>3</sup> /day	Suspended Solids mg/L	B.O.D. mg/l	C.O.D. mg/L	96 Hour LC50 (%v/v)	GRAB NH3 mg/L	Suspended Solids tonnes/Day	B.O.D. tonnes/Day
2010/06/01	476,301	53	96	189		12.1	25.2	45.7
2010/06/02	929,084	64		141			59.5	
2010/06/03	498,268	60		184			29.9	
2010/06/04	482,184							
2010/06/05	452,333							
2010/06/06	472,633	54		174			25.5	
2010/06/07	451,226	54		197			24.4	
2010/06/08	430,486	68	109	221			29.3	46.9
2010/06/09	706,072	65		172			45.9	
2010/06/10	622,526	62		183			38.6	
2010/06/11	472,968							
2010/06/12	442,844							
2010/06/13	430,601	60		195			25.8	
2010/06/14	471,331	72		222			33.9	
2010/06/15	483,962	61	105	206			29.5	50.8
2010/06/16	427,694	68		248			29.1	
2010/06/17	413,954	68		226			28.1	
2010/06/18	412,455							
2010/06/19	405,981							
2010/06/20	388,330	54		192			21.0	
2010/06/21	399,682	63		225			25.2	
2010/06/22	401,176	64	98	226	81	15.1	25.7	39.3
2010/06/23	404,945	62		196			25.1	
2010/06/24	404,158	72		228			29.1	
2010/06/25	411,419							
2010/06/26	394,231							
2010/06/27	389,480	53		183			20.6	
2010/06/28	405,457	64	101	222			25.9	41.0
2010/06/29	352,632	62		218			21.9	
2010/06/30	360,930	69		229			24.9	

NOTES: Plant daily flow is reported for the 24 hour period beginning at midnight.  
 Composite samples: the 24 hour period begins at midnight.

ADDITIONAL SUBSTANCES FOR MONITORING	
Parameters	Results
Composite Date	22-Jun-10
Hardness (mg/L CaCO <sub>3</sub> )	53.1
Aluminum, Total (mg/L)	0.25
Arsenic , Total (mg/L)	<0.001
Barium, Total (mg/L)	0.014
Boron , Total (mg/L)	0.10
Cadmium, Total (mg/L)	<0.0005
Copper, Total (mg/L)	0.075
Iron, Total (mg/L)	0.60
Lead , Total (mg/L)	0.002
Manganese, Total (mg/L)	0.042
Mercury, Total (µg/L)	<0.05
Molybdenum, Total (mg/L)	0.002
Nickel, Total (mg/L)	0.002
Selenium, Total (mg/L)	<0.01
Silver, Total (mg/L)	<0.001

Grab Date	22-Jun-10
pH	6.9
Temperature, (oC)	19

Grab Date	22-Jun-10
Phenol (mg/L)	<0.01

Submitted by: Quality Control Division, Operations and Maintenance Department

File: SE 02-03 ION/10

**Jul-2010 Report**

**GVS&DD MONITORING RESULTS FOR OPERATING CERTIFICATE  
 SAMPLING LOCATION: IONA ISLAND WWTP EFFLUENT  
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Site Reference No: E100992

DATE year/month/day	FLOW M <sup>3</sup> /day	Suspended Solids mg/L	B.O.D. mg/l	C.O.D. mg/L	96 Hour LC50 (%v/v)	GRAB NH3 mg/L	Suspended Solids tonnes/Day	B.O.D. tonnes/Day
2010/07/01	381,368	63		207			24.0	
2010/07/02	385,444							
2010/07/03	376,839							
2010/07/04	376,222	50		189			18.8	
2010/07/05	394,086	70		229			27.6	
2010/07/06	395,942	66	104	217		16.4	26.1	41.2
2010/07/07	402,622	66		231			26.6	
2010/07/08	408,355	69		230			28.2	
2010/07/09	408,952							
2010/07/10	390,755							
2010/07/11	393,320	51		191			20.1	
2010/07/12	401,135	61		212			24.5	
2010/07/13	395,488	56	96	208			22.1	38.0
2010/07/14	396,451	64		222	65	16.2	25.4	
2010/07/15	399,453	64		199			25.6	
2010/07/16	397,927							
2010/07/17	384,290							
2010/07/18	384,650	49		187			18.8	
2010/07/19	403,207	59		221			23.8	
2010/07/20	398,059	57	88	197			22.7	35.0
2010/07/21	401,599	68		233			27.3	
2010/07/22	400,219	66		230			26.4	
2010/07/23	397,820							
2010/07/24	393,377							
2010/07/25	390,066	58		195			22.6	
2010/07/26	405,164	64		212			25.9	
2010/07/27	403,424	64	105	215			25.8	42.4
2010/07/28	406,152	58		232			23.6	
2010/07/29	403,338	63		222			25.4	
2010/07/30	406,334							
2010/07/31	394,372							

NOTES: Plant daily flow is reported for the 24 hour period beginning at midnight.  
 Composite samples: the 24 hour period begins at midnight.

ADDITIONAL SUBSTANCES FOR MONITORING	
Parameters	Results
Composite Date	14-Jul-10
Hardness (mg/L CaCO <sub>3</sub> )	49.6
Aluminum, Total (mg/L)	0.21
Arsenic, Total (mg/L)	0.001
Barium, Total (mg/L)	0.012
Boron, Total (mg/L)	0.10
Cadmium, Total (mg/L)	0.0072
Copper, Total (mg/L)	0.078
Iron, Total (mg/L)	0.51
Lead, Total (mg/L)	0.042
Manganese, Total (mg/L)	0.038
Mercury, Total (µg/L)	<0.05
Molybdenum, Total (mg/L)	0.002
Nickel, Total (mg/L)	0.002
Selenium, Total (mg/L)	<0.01
Silver, Total (mg/L)	<0.001

<b>Grab Date</b>	14-Jul-10
pH	6.9
Temperature, (oC)	20

<b>Grab Date</b>	14-Jul-10
Phenol (mg/L)	0.02

Submitted by: Quality Control Division, Operations and Maintenance Department

File: SE 02-03 ION/10

**Aug-2010 Report**

**GVS&DD MONITORING RESULTS FOR OPERATING CERTIFICATE  
 SAMPLING LOCATION: IONA ISLAND WWTP EFFLUENT  
 Operational Certificate ME: 00023, Issued April 23, 2004**

Site Reference No: E100992

DATE year/month/day	FLOW M <sup>3</sup> /day	Suspended Solids mg/L	B.O.D. mg/l	C.O.D. mg/L	96 Hour LC50 (%v/v)	GRAB NH3 mg/L	Suspended Solids tonnes/Day	B.O.D. tonnes/Day
2010/08/01	374,523	51		181			19.1	
2010/08/02	385,244	51		185			19.6	
2010/08/03	400,004	57	102	201		14.9	22.8	40.8
2010/08/04	405,447	65		222			26.4	
2010/08/05	407,697	55		204			22.4	
2010/08/06	402,762							
2010/08/07	545,406							
2010/08/08	434,883	35		144			15.2	
2010/08/09	413,854	61		209			25.2	
2010/08/10	396,625	56	106	223			22.2	42.0
2010/08/11	399,111	52		202			20.8	
2010/08/12	400,331	67		221	86	15.9	26.8	
2010/08/13	402,891							
2010/08/14	391,598							
2010/08/15	393,684	57		184			22.4	
2010/08/16	413,584	59		201			24.4	
2010/08/17	413,727	52	98	192			21.5	40.5
2010/08/18	403,473	53		227			21.4	
2010/08/19	398,830	60		214			23.9	
2010/08/20	395,238							
2010/08/21	385,248							
2010/08/22	378,618	59		189			22.3	
2010/08/23	388,071	63		224			24.4	
2010/08/24	395,351	70	114	238			27.7	45.1
2010/08/25	399,350	70		233			28.0	
2010/08/26	409,741	71		240			29.1	
2010/08/27	455,627							
2010/08/28	388,915							
2010/08/29	378,926	54		199			20.5	
2010/08/30	395,689	67		231			26.5	
2010/08/31	890,562	61	60	139			54.3	53.4

NOTES: Plant daily flow is reported for the 24 hour period beginning at midnight.  
 Composite samples: the 24 hour period begins at midnight.

ADDITIONAL SUBSTANCES FOR MONITORING	
Parameters	Results
Composite Date	17-Aug-10
Hardness (mg/L CaCO <sub>3</sub> )	45.4
Aluminum, Total (mg/L)	0.72
Arsenic, Total (mg/L)	<0.001
Barium, Total (mg/L)	0.011
Boron, Total (mg/L)	0.09
Cadmium, Total (mg/L)	<0.0005
Copper, Total (mg/L)	0.074
Iron, Total (mg/L)	0.50
Lead, Total (mg/L)	0.001
Manganese, Total (mg/L)	0.036
Mercury, Total (µg/L)	<0.05
Molybdenum, Total (mg/L)	0.002
Nickel, Total (mg/L)	0.002
Selenium, Total (mg/L)	<0.01
Silver, Total (mg/L)	<0.001

Grab Date	12-Aug-10
pH	7.0
Temperature, (oC)	21

Grab Date	12-Aug-10
Phenol (mg/L)	<0.01

Submitted by: Quality Control Division, Operations and Maintenance Department

File: SE 02-03 ION/10

**Oct-2010 Report**

**GVS&DD MONITORING RESULTS FOR OPERATING CERTIFICATE  
 SAMPLING LOCATION: IONA ISLAND WWTP EFFLUENT  
 Operational Certificate ME: 00023, Issued April 23, 2004**

Site Reference No: E100992

DATE year/month/day	FLOW M <sup>3</sup> /day	Suspended Solids mg/L	B.O.D. mg/l	C.O.D. mg/L	96 Hour LC50 (%v/v)	GRAB NH3 mg/L	Suspended Solids tonnes/Day	B.O.D. tonnes/Day
2010/10/01	472,627							
2010/10/02	452,944							
2010/10/03	435,621	44		160			19.2	
2010/10/04	464,186	48		171			22.3	
2010/10/05	452,368	48	93	184			21.7	42.1
2010/10/06	451,784	52		206			23.5	
2010/10/07	423,069	46		206	97	14.5	19.5	
2010/10/08	428,998							
2010/10/09	975,400							
2010/10/10	724,706	38		99			27.5	
2010/10/11	550,422	46		147			25.3	
2010/10/12	492,500	45	77	185		19.0	22.2	37.9
2010/10/13	470,793	53		198			25.0	
2010/10/14	475,350	55		182			26.1	
2010/10/15	453,645							
2010/10/16	436,931							
2010/10/17	427,061	51		191			21.8	
2010/10/18	429,857	56		202			24.1	
2010/10/19	428,697	60	104	216			25.7	44.6
2010/10/20	425,204	58		209			24.7	
2010/10/21	435,304	55		222			23.9	
2010/10/22	475,228							
2010/10/23	426,806							
2010/10/24	911,548	57		139			52.0	
2010/10/25	1,263,956	49		84			61.9	
2010/10/26	851,538	50	68	139			42.6	57.9
2010/10/27	601,715	51		146			30.7	
2010/10/28	559,276	51		168			28.5	
2010/10/29	566,525							
2010/10/30	495,566							
2010/10/31	563,905	42		160			23.7	

NOTES: Plant daily flow is reported for the 24 hour period beginning at midnight.  
 Composite samples: the 24 hour period begins at midnight.

ADDITIONAL SUBSTANCES FOR MONITORING	
Parameters	Results
Composite Date	7-Oct-10
Hardness (mg/L CaCO <sub>3</sub> )	49.3
Aluminum, Total (mg/L)	0.16
Arsenic, Total (mg/L)	<0.001
Barium, Total (mg/L)	0.012
Boron, Total (mg/L)	0.08
Cadmium, Total (mg/L)	0.0013
Copper, Total (mg/L)	0.045
Iron, Total (mg/L)	0.44
Lead, Total (mg/L)	0.001
Manganese, Total (mg/L)	0.040
Mercury, Total (µg/L)	<0.05
Molybdenum, Total (mg/L)	0.003
Nickel, Total (mg/L)	0.002
Selenium, Total (mg/L)	<0.01
Silver, Total (mg/L)	<0.001

Grab Date	7-Oct-10
pH	7.1
Temperature, (oC)	20

Grab Date	7-Oct-10
Phenol (mg/L)	0.02

Submitted by: Quality Control Division, Operations and Maintenance Department

File: SE 02-03 ION/10