



2013 Annual Report – Waste Water

2013 ANNUAL REPORT
MORRISBURG WASTE WATER TREATMENT PLANT

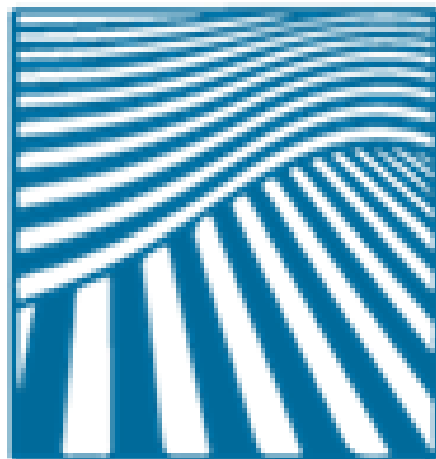
Reporting period - JAN 1st - DEC 31st 2013

MORRISBURG WASTE WATER TREATMENT PLANT
5 ALLISON STREET - MORRISBURG

Waste Water Treatment System Number: 2147-734L2K

Waste Water Treatment System Owner : Municipality of South Dundas

Waste Water Treatment System Category : Large Municipal Residential





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Availability

Public Access via the web

<http://www.southdundas.com>

Public Access via Public Request

Municipal Offices, 34 Ottawa Street,
Morrisburg

Public Notice via Local Newspaper

Free copies of this report and the Summary report prepared as per requirements as per C of A number 2147-734L2K have been listed below. As per Condition 10, ss 6 of the C of A, a performance report shall be prepared and submitted 90 days following the end of the period being reported upon. The following is a list of the information to be included in this annual report as per C of A number 2147-734L2K



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1. Summary and comments outlining the monitoring data and effluent limits' (Condition 7 of C of A # 2147-734L2K), including an overview of the success and adequacy of the Works

MORRISBURG	Total m ³	Average Daily m ³	Maximum Daily m ³
Jan	94,137.00	3,037.00	8,504.00
Feb	50,562.00	1,806.00	3,822.00
March	85,314.00	2,752.00	6,531.00
April	98,478.00	3,283.00	6,044.00
May	79,233.00	2,556.00	4,228.00
June	118,460.00	3,949.00	8,217.00
July	95,410.00	3,077.00	5,753.00
August	74,283.00	2,396.00	4,495.00
September	112,553.00	3,751.00	16,922.00
October	71,443.00	2,304.00	3,004.00
November	70,393.00	2,346.00	5,629.00
December	55,220.00	1,781.00	3,683.00
Total Flow	1,005,486.00		
Ave Daily Flow		2,753.17	
Max Day			16,922.00



South Dundas Waste Water Treatment Plant
5 Allison Street, Morrisburg

Supervisor of Water & Wastewater
Ian Kemp

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MORRISBURG	Raw Influent					Final Effluent						
	Suspended Solids mg/L	TKN mg/l	Total Phosphorus mg/L	Nitrite (NO ₂) mg/L	Nitrate (NO ₃)mg/L	CBOD ₅ mg/L	Suspended Solids mg/L	Ammonia + Ammonium	TKN mg/l	Total Phosphorus mg/L	Nitrite (NO ₂) mg/L	Nitrate (NO ₃)mg/L
Jan	92.00	10.30	1.60			2.90	10.60	0.06		0.53	0.05	4.10
Feb	76.00	12.90	2.50			2.10	4.90	0.78		0.29	0.30	3.80
March	88.00	7.45	1.40			1.50	7.80	0.13		0.38	0.05	4.20
April	64.00	7.95	1.50			3.00	6.70	0.05		0.27	0.10	5.90
May	80.00	9.57	1.70			2.60	5.00	0.04		0.23	0.10	4.40
June	52.00	9.70	1.90			3.00	4.00	0.02		0.15	0.10	4.80
July	46.00	6.65	1.10			3.00	4.70	0.01		0.14	0.10	5.40
August	92.00	6.82	1.60			3.00	3.80	0.01		0.53	0.10	5.00
September	60.00	11.70	1.30			3.50	4.00	0.04		0.37	0.01	4.00
October	180.00	17.80	2.20			3.00	3.20	0.02		0.32	0.10	5.60
November	120.00	12.50	1.50			3.00	5.00	0.04		0.35	0.10	4.40
December	108.00	23.60	2.90			3.00	8.00	0.03		0.38	0.10	4.80
Average	88.17	11.41	1.77			2.80	5.64	0.10		0.33	0.10	4.70
Limits						25	25			1		
Objectives						15	15	5/7 ⁽ⁱ⁾		0.5		

(i) 5 mg/L June 1 to September 30 / 7 mg/L October 1 to May 31



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2. Description of any operating problems/corrective actions taken

None to report during this period

3. Summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works

All maintenance work throughout this reporting period has been completed to the Manufacturer's specifications, as detailed in the maintenance manuals.

4. Summary of any effluent quality assurance or control measures undertaken in the reporting period

The Table on page 6 'Effluent Quality' demonstrates that all analytical samples taken have proven to be within acceptable limits. No other control measure were required to be undertaken within the annual reporting period covered by this report.

5. Summary of the calibration and maintenance carried out on all effluent monitoring equipment

Calibration of all monitoring equipment was successfully carried out by V.Nowik Instrumentation and Control on June 24th 2013.

6. Description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6 of C of A number 62-A-864/ 3-0958-76-006 / 3-0128-76-006

As can be seen in the chart on page 5 all effluent objectives in condition 6 of the certificate of approval were met during this reporting period.



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7. Tabulation of the quantity of septage added to the works for co-treatment during the reporting period

During this reporting period the Morrisburg Treatment Plant Received a total septage volume of 16,446.00 m³. This was pumped into the inlet works from the septage holding tank at a rate less than the 8m³/day as specified in the certificate of approval.

8. Tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed

On October the 16th of 2013 Third High Farms removed a total of 800 cubic meters of sludge from the Morrisburg Plant. This was spread at licenced fields of McPherson Farms.

9. Summary of any complaints received during the reporting period and any steps taken to address the complaints

There were no complaints received relating to this plant, during this reporting period.

10. Summary of all By-pass, spill or abnormal discharge events

There were no events during this reporting period.