

Table 7 – Lead Sampling

Parameter	Result Value	MAC	Exceedance
Winter Sample (Dec. 15 – April 15)			
Lead (ug/l)	0.05	10	No
Distribution Alkalinity (mg/l)	201	*30 - 500	No
Distribution pH	7.15	-	No
Summer Sample (June 15 – Oct. 15)			
Lead (ug/l)	0.11	10	No
Distribution Alkalinity	205	*30 – 500	No
Distribution pH	6.84	-	No

**Distribution alkalinity is an aesthetic objective / Operational Guideline with a range between 30 mg/l to 500 mg/l*

The following Table summarizes the most recent test results for Schedules 23 and 24. Testing is required every 5 years for secure groundwater wells.

Table 8 – Schedule 23 & 24

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
Antimony	01/02/2017	ND	No
Arsenic	01/02/2017	ND	No
Barium	01/02/2017	502	No
Barium	01/02/2017	489	No
Barium	01/02/2017	484	No
Boron	01/02/2017	201	No
Cadmium	01/02/2017	0.012	No
Chromium	01/02/2017	0.58	No
Mercury	01/02/2017	ND	No
Selenium	01/02/2017	ND	No
Uranium	01/02/2017	0.023	No
Alachlor	01/02/2017	ND	No
Atrazine + N-dealkylatedmetabolites	01/02/2017	ND	No
Atrazine	01/02/2017	ND	No

Parameter	Sample Date	Treated Water Value (ug/l)	Exceedance
Densethyl atrazine	01/02/2017	ND	No
Azinphos-methyl	01/02/2017	ND	No
Benzene	01/02/2017	ND	No
Benzo(a)pyrene	01/02/2017	ND	No
Bromoxynil	01/02/2017	ND	No
Carbaryl	01/02/2017	ND	No
Carbofuran	01/02/2017	ND	No
Carbon Tetrachloride	01/02/2017	ND	No
Chlorpyrifos	01/02/2017	ND	No
Chlorpyrifos	01/02/2017	ND	No
Diazinon	01/02/2017	ND	No
Dicamba	01/02/2017	ND	No
1,2-Dichlorobenzene	01/02/2017	ND	No
1,4-Dichlorobenzene	01/02/2017	ND	No
1,2-Dichloroethane	01/02/2017	ND	No
1,1-Dichloroethylene (vinylidene chloride)	01/02/2017	ND	No
Dichloromethane	01/02/2017	ND	No
2-4 Dichlorophenol	01/02/2017	ND	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/02/2017	ND	No
Diclofop-methyl	01/02/2017	ND	No
Dimethoate	01/02/2017	ND	No
Diquat	01/02/2017	ND	No
Diuron	01/02/2017	ND	No
Glyphosate	01/02/2017	ND	No
Malathion	01/02/2017	ND	No
2-methyl-4chlorophenoxyacetic acid (MCPA)	01/02/2017	ND	No
Metolachlor	01/02/2017	ND	No
Metribuzin	01/02/2017	ND	No
Monochlorobenzene	01/02/2017	ND	No
Paraquat	01/02/2017	ND	No
Pentachlorophenol	01/02/2017	ND	No
Phorate	01/02/2017	ND	No
Picloram	01/02/2017	ND	No
Polychlorinated Biphenyls(PCB)	01/02/2017	ND	No

System Capability Assessment				
Comparison of Treated Water Rates: Birr Well Supply System				
Average Flow	262.5	8.7	15.6	18 %
Maximum Flow	326.2	10.9	36.1	
Rated Capacity	88.4 (m ³ /day)			

Section G – Non-Compliance Findings & Adverse Results

Non-compliance issues are typically identified by either the Operating Authority or the MECP Drinking Water Inspectors. All non-compliance issues are investigated, corrective actions taken and documented using the Municipalities Drinking Water Quality Management System (DWQMS) procedures.

(I) Non-Compliance Findings

The MECP conducted an announced routine inspection of the Birr Drinking Water System on July 25, 2019. The MECP inspector identified two (2) non-compliances with the regulatory requirements.

1. The operations and maintenance manuals did not contain plans, drawings and process descriptions sufficient for the safe and efficient operation of the system. The most recent update to the Operations and Maintenance Manual occurred in August 2016. The current process flow diagram is dated January 21, 2005 and is understood to represent the current plant configuration. It should be noted however, that the existing Pump House Floor Plan (January 7, 2005) drawing incorrectly identifies a reservoir bypass line that has recently been physically cut and capped to no longer allow this bypass to occur. In addition, sections of the current Operations and Maintenance Manual include reference to an existing reservoir bypass line, while other sections indicate that this bypass line has been disconnected.
2. Action(s) Required: The Owner / Operating Authority shall forthwith amend the current plant drawing(s) and Operations and Maintenance Manual to consistently reflect the disconnection of the reservoir bypass line to ensure compliance with the general requirements of Ontario Regulation 128/04 - Section 28. An amended drawing, Operations, and Maintenance Manual, reflecting these changes, shall be forwarded to Neville Rising of the Ministry of the Environment, Conservation and Parks by September 30, 2019.

The Municipality provided an up to Operations Manual and plant-drawing illustrating the reservoir bypass line has been capped and removed to the MECP on September 25, 2019.