Ministry of the Environment and Climate Change

Safe Drinking Water Branch

Ottawa District Office
2430 Don Reid Drive
Ottawa ON K1H 1E1

Ministère de l'Environnement et de l'Action en matière de changement climatique

Direction du contrôle de la qualité de l'eau potable

Bureau du district d'Ottawa
2430, chemin Don Reid
Ottawa (Ontario) K1H 1E1

Ontario

January 25, 2016

Sent by Email: rmcgee@deepriver.ca

Town of Deep River
100 Deep River Road, P.O. Box 400
Deep Rvier, Ontario
K0J 1P0

Attention: Mr. Ric McGee
Chief Administrative Officer/Clerk, Town of Deep River

Dear Mr. McGee:

Re: 2015-2016 Inspection Report

The enclosed report documents findings of the inspection that was performed at the Deep River sewage works on October 28, 2015.

Two sections of the report, namely "Actions Required" and "Recommended Actions" cite due dates for the submission of information or plans to my attention.

Please note that "Actions Required" are linked to incidents of non-compliance with regulatory requirements contained within an Act, a Regulation, or site-specific approvals, orders or instructions. Such violations could result in the issuance of mandatory abatement instruments including orders, tickets, penalties, or referrals to the ministry's Investigations and Enforcement Branch.

"Recommended Actions" convey information that the owner or operating authority should consider implementing in order to advance efforts already in place to address such issues as emergency preparedness and conformance with existing and emerging industry standards. Please note that items which appear as recommended actions do not, in themselves, constitute violations.

Thank you for the assistance afforded to me during the conduct of the compliance assessment. Should you have any questions regarding the content of the enclosed report, please do not hesitate to contact me.

Yours truly,

Jen Bitten, B.Sc.
Water Inspector, Badge #1609
Ministry of the Environment & Climate Change
Safe Drinking Water Branch
2430 Don Reid Drive

Ottawa, ON K1H 1E1
Tel: 613-521-3450 ext. 255 or 1-800-860-2195
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JB

Enclosure

ec: Brad Sweet, Operations Manager, Ontario Clean Water Agency - Ottawa Valley Hub, 560 Abbie Lane, Petawawa, ON K8H 2X2, bsweet@ocwa.com

- Brenda Royce, Process and Compliance Technician, Ontario Clean Water Agency - Ottawa Valley Hub, 560 Abbie Lane, Petawawa, ON K8H 2X2, broyce@ocwa.com

- Stephen Bird, Overall Responsible Operator, Ontario Clean Water Agency – Ottawa Valley Hub, 177 River Road, Deep River, ON K0J 1P0, sbird@ocwa.com

- Mike Grace, Manager, Environmental Health, Renfrew County and District Health Unit, 7 International Drive, Pembroke, ON K8A 6W5, mgrace@rcdhu.com

- Bruce Mighton, District Manager (A), Ministry of Natural Resources, Pembroke District Office, 31 Riverside Drive, Pembroke, ON K8A 8R6, bruce.mighton@ontario.ca

c: File SI-RE-DE-CE-441 (2015)

Ontario

Ministry of the Environment and Climate Change

WW DEEP RIVER WPCP

Inspection Report

Site Number:	120000612
Inspection Number:	1-BZJ0D
Date of Inspection:	Oct 28, 2015
Inspected By:	Jen Bitten

TABLE OF CONTENTS:

OWNER INFORMATION:

Company Name:	DEEP RIVER, TOWN OF		
Street Number:	100	**Unit Identifier:**	
Street Name:	DEEP RIVER Rd		
City:	DEEP RIVER		
Province:	ON	**Postal Code:**	K0J 1P0

CONTACT INFORMATION

Type:	Owner	**Name:**	Ric McGee
Phone:	(613) 584-2000 x126	**Fax:**	(613) 584-3237
Email:	rmcgee@deepriver.ca		
Title:	CAO/Clerk, Town of Deep River		

Type:	Owner	**Name:**	Sean Patterson
Phone:	(613) 584-2000 x108	**Fax:**	(613) 584-3237
Email:	spatterson@deepriver.ca		
Title:	Director of Public Works, Town of Deep River		

Type:	Operating Authority	**Name:**	Brad Sweet
Phone:	(613) 687-2141	**Fax:**	(613) 687-7138
Email:	bsweet@ocwa.com		
Title:	Operations Manager, OCWA - Ottawa Valley Hub		

Type:	Operating Authority	**Name:**	Brenda Royce
Phone:	(613) 687-2141	**Fax:**	(613) 687-7138
Email:	broyce@ocwa.com		
Title:	Process & Compliance Technician, OCWA - Ottawa Valley Hub		

INSPECTION DETAILS:

Site Name:	WW DEEP RIVER WPCP
Site Address:	1 CEDAR RD DEEP RIVER ON K0J 1P0
County/District:	Deep River
MOECC District/Area Office:	Ottawa District
Health Unit:	RENFREW COUNTY AND DISTRICT HEALTH UNIT
Conservation Authority	N/A
MNR Office:	Pembroke District Office
Site Number:	120000612
Inspection Type:	Announced
Inspection Number:	1-BZJ0D
Date of Inspection:	Oct 28, 2015
Date of Previous Inspection:	Feb 11, 2014

COMPONENTS DESCRIPTION

Site (Name): Wastewater Treatment
Type: Plant Classification **Sub Type:** Class II
Comments:
Facility certificate #101, issued March 9, 2000.

Site (Name): Wastewater Collection
Type: Plant Classification **Sub Type:** Class I
Comments:
Facility certificate #102, issued March 1, 1997.

Site (Name): Deep River Wastewater Treatment
Type: Mechanical Sewage Treatment **Sub Type:** Pre-treatment
Comments:
Two (2) sewage grinders directing influent to the vortex grit removal unit (teacup), one (1) grit pump and one (1) grit classifier/dewatering unit.

Site (Name): Deep River Wastewater Treatment
Type: Mechanical Sewage Treatment **Sub Type:** Secondary Treatment
Comments:
Three (3) Sequencing Batch Reactors (SBR) operating in parallel.

Site (Name): Deep River Phosphorus Removal
Type: Mechanical Sewage Treatment **Sub Type:** Chemical Addition
Comments:
Deep River currently uses Aluminum Sulphate for phosphorus removal. There are two (2) 18900L capacity storage tanks with two (2) chemical metering pumps for chemical dosing downstream of the grit removal unit. The ECA does not specify the coagulant used.

Site (Name): Deep River Effluent
Type: Method of Disinfection **Sub Type:** Ultraviolet
Comments:
Disinfection is achieved with a UV system having a peak flow rate of 120L/s.

There is also a chlorine disinfection drip system for use during a plant bypass which is initiated manually.

Site (Name): Deep River Effluent
Type: Effluent Discharge Receiver **Sub Type:** Surface Water
Comments:
Effluent discharge pipe and outfall discharging to the Ottawa River.

Site (Name): Deep River Effluent
Type: Effluent Discharge Frequency **Sub Type:** Continuous
Comments:
Continuous effluent discharge.

Site (Name): Deep River Collection
Type: Sewage Collection System **Sub Type:** Nominally separated sewers
Comments:
The Town is serviced by separated sewers. There are no combined sewers; however, the system does experience increased flows during precipitation events. There are no overflow or bypass locations within the collection system.

Site (Name): Sewage Pumping Station
Type: Collection System Component **Sub Type:** Pumping station
Comments:
One (1) Sewage Pumping Station located at the entrance of the plant. The station is equipped with a 3.0m diameter wet well with two (2) submersible sewage pumps, each rated at 140L/s at 7.8m TDH. The station is connected via 300mm forcemain to the inlet works of the plant. There is an overflow pipe connected to the plant bypass system.

Site (Name): Deep River Biosolids
Type: Biosolids Stabilization Process **Sub Type:** Other
Comments:
Aerobic sludge digestion occurs in a 427m³ tank with fine-bubble aeration supplied by two (2) blowers and equipped with a sludge transfer pump.

Site (Name): Deep River Biosolids
Type: Type of Biosolids **Sub Type:** Liquid
Comments:
Liquid biosolids.

Site (Name): Deep River Biosolids
Type: Biosolids Storage Method **Sub Type:** On-Site Storage Capacity
Comments:
A 1585m³ capacity sludge storage tank.

Three (3) decommissioned Imhoff tanks were converted to sludge storage, providing an additional 1200m³ of sludge storage.

Site (Name): Deep River Biosolids
Type: Biosolids Disposal Method **Sub Type:** Land application
Comments:
Biosolids are disposed via land application at approved sites.

Site (Name): Deep River Standby Power

Type: Stand-by Power Generation **Sub Type:** STP Generator

Comments:

A 350kW standby diesel generator set with two (2) 1136L capacity fuel storage tanks located at the plant.

INSPECTION SUMMARY

INTRODUCTION

* **The primary focus of this inspection is to confirm compliance with Ministry of the Environment and Climate Change (MOECC) legislation as well as evaluating conformance with ministry policies and guidelines during the inspection period.**

This wastewater treatment and collection system is subject to the legislative requirements of the Ontario Water Resources Act (OWRA) and the Environmental Protection Act (EPA) and regulations made therein. This inspection has been conducted pursuant to Section 15 of the OWRA and Section 156 of the EPA.

This inspection report does not suggest that all applicable legislation and regulations were evaluated. It remains the responsibility of the owner to ensure compliance with all applicable legislative and regulatory requirements.

The Deep River Wastewater Treatment Plant (WWTP) and the wastewater collection system is owned by the Town of Deep River and operated by the Ontario Clean Water Agency (OCWA).

An inspection was conducted on October 28, 2015 and was attended by Ministry of the Environment and Climate Change Water Inspector Jen Bitten and OCWA staff Brenda Royce, Stephen Bird and Chris Murphy. The site was last inspected on February 11, 2014 and this inspection period includes from February 11, 2014 - October 28, 2015.

An audit sample of final effluent was taken as part of the inspection and was analyzed for microbiological parameters, these results are found in the Appendices.

AUTHORIZING/CONTROL DOCUMENTS

* **The owner had a valid Environmental Compliance Approval for the sewage works.**

Certificate of Approval (CofA) #1655-7P8SPE was issued on February 26, 2009.

CAPACITY ASSESSMENT

* **The annual average daily flow was approaching the rated capacity of the sewage works.**

The rated capacity is 2727m³ as stated in the ECA.

Average daily flows in 2014 were 3027m³, which is 111% over capacity for the plant. Flows have increased over the capacity of the plant in 2014 and 2015. For 2015, the flows are expected to either exceed or be very close to the rated capacity with the average daily flow up to the end of September of 2802m³/day.

* **The owner was not in compliance with the conditions associated with maximum flow rate or the rated capacity prescribed by the Environmental Compliance Approval.**

The collection system is separated; however, the plant experiences higher flows that occur throughout the year, during the spring melt as well as during any precipitation event. Inflow and/or infiltration is strongly suspected to be occurring within the collection system. Flows increased in April 2014 with monthly average flows above 3000m³/day which continued for the rest of the year until December, which was still above the capacity. Flows for 2015 have been less than in 2014 but still remain above the rated capacity and is expected to be at or above capacity for the 2015 calendar year.

The Town has conducted flushing and camera work in 2014 and 2015 as part of an inspection program to determine where the infiltration and/or inflow is occurring; however, problem areas have

CAPACITY ASSESSMENT

not yet been identified and no repairs have been conducted. Efforts should be taken to reduce the infiltration/inflow within the collection system prior to any upgrades to the plant.

A written report is required to be submitted to the undersigned Water Inspector, by no later than June 30, 2016, outlining the results of the inspection program, including flushing and camera work. Identification of problem areas, if any, and written plans to reduce or eliminate the inflow/infiltration within the collection system should be included.

* **The owner of the sewage works had not prepared a written statement certified by a Professional Engineer confirming that the proposed works were constructed in accordance with the Environmental Compliance Approval.**

Condition 4(1) of the ECA requires upon the substantial completion of the Proposed Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with the ECA, and upon request, shall make the written statement available for inspection by Ministry personnel.

This statement could not be located for inspection.

* **Flow measuring devices were installed, calibrated and maintained in accordance with the requirements of the Environmental Compliance Approval.**

Deep River WWTP measures the raw flows entering the plant and waste activated sludge (WAS). Records indicate that both flow meters are verified on an annual basis as required under Condition 9(8) of the ECA.

* **Flow rates were recorded at a frequency prescribed by the Environmental Compliance Approval.**

Daily flow rates are recorded as required under Condition 9(8) of the ECA.

TREATMENT PROCESSES

* **All monitoring equipment other than flow monitoring devices were installed, calibrated and maintained in accordance with any Environmental Compliance Approval.**

Each SBR tank is equipped with a dissolved oxygen analyzer.

* **The owner had ensured that all equipment was installed in accordance with the Environmental Compliance Approval.**

* **The works, related equipment and appurtenances were being operated and maintained to achieve compliance prescribed by the Environmental Compliance Approval.**

Operators visit the plant on a daily basis (weekdays). A Daily Walk-Around Sheet is completed, checking the plant equipment and chemical usage for the previous day(s). The Daily Report printed from the SCADA system is reviewed for flows, information on the SBR cycles and bypass information. During the inspection, it was evident that the operators are organized and well aware of the capabilities of their plant.

* **The owner of the sewage works had complied with all additional requirements of the Environmental Compliance Approval pertaining to the operation and maintenance of the sewage works.**

Condition 8(1) of the ECA includes a general statement to ensure proper operation and maintenance of the Works. It states that proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of the Certificate and the Act and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the Works.

TREATMENT PROCESSES

* **The operator-in-charge had ensured that all equipment used in the processes was monitored, maintained, inspected, tested and evaluated.**

* **The owner/operating authority was able to demonstrate that best efforts were used to achieve the objectives listed in the Environmental Compliance Approval conditions.**

  Operators monitor the process from raw sewage through to the final effluent. In-house lab work is completed at least three (3) times per week, allowing operators to adjust the process based on the results. Operators complete the In-House SBR Lab Work and In-House Laboratory Worksheet which records numerous parameters for process control. A whiteboard in the lab displays the some of the most recent in-house results for each SBR tank which the operators can see upon arrival at the plant.

* **The sewage works effluent was essentially free of foreign substances on the day of the inspection.**

EFFLUENT QUALITY AND QUANTITY

* **The sewage works effluent limits were prescribed by the Environmental Compliance Approval.**

  Effluent limits are specified in Condition 7 of the ECA.

* **The sewage works effluent sample results demonstrated compliance with BOD5 or CBOD5 limits prescribed by the Environmental Compliance Approval.**

  Effluent CBOD5 sampling is required on a monthly basis, with compliance based on an annual average for both concentration and loading.

  The annual average concentration for 2014 was 4.0mg/L, well within the ECA limit of 25.0mg/L. To date in 2015, the average concentration is 3.5mg/L.

  The annual average loading for 2014 was 10.78kg/day, well within the ECA limit of 68.2kg/day.

* **The sewage works effluent sample results demonstrated compliance with total suspended solids limits prescribed by the Environmental Compliance Approval.**

  Effluent Total Suspended Solids (TSS) sampling is required on a monthly basis, with compliance based on an annual average for both concentration and loading.

  The annual average concentration for 2014 was 17.1mg/L, within the ECA limit of 25.0mg/L. To date in 2015, the average concentration is 13.8mg/L.

  The annual average loading for 2014 was 46.9kg/day, well within the ECA limit of 68.2kg/day.

* **The sewage works effluent sample results demonstrated compliance with total phosphorous limits prescribed by the Environmental Compliance Approval.**

  Effluent Total Phosphorus (TP) sampling is required on a weekly basis, with compliance based on a monthly average for concentration and annual average for loading.

  Monthly average concentrations in 2014 ranged from 0.17mg/L - 0.89mg/L, well within the ECA monthly limit of 1.0mg/L. To date in 2015, the highest monthly average concentration is 0.84mg/L.

  The annual average loading for 2014 was 1.08kg/day, well within the ECA limit of 2.7kg/day. To date in 2015, the average loading is 1.2kg/day.

EFFLUENT QUALITY AND QUANTITY

* **The sewage works effluent sample results demonstrated compliance with total ammonia/total ammonia nitrogen/unionized ammonia limits prescribed by the Environmental Compliance Approval.**

  Effluent Total Ammonia Nitrogen (TAN) sampling is required on a weekly basis, with compliance based on a monthly average for both concentration and loading. TAN compliance limits vary based on the season as noted below. Unionized ammonia is required to be calculated on a weekly basis using the temperature and pH measured at the time of sampling for TAN.

  Monthly average concentrations over the inspection period ranged from 0.18mg/L - 7.0mg/L, well within the lowest limit of 10mg/L. Monthly average loading values ranged from 0.62kg/day - 19.2kg/day, well within the lowest limit of 40.9kg/day.

  November 1 to April 30 - Limit of 25.0mg/L (loading of 68.2kg/day)

  May 1 to 31 - Limit of 20.0mg/L (loading of 9.8kg/day)

  June 1 to 30 and October 1 to 30 - Limit of 15.0mg/L (loading of 40.9kg/day)

  July 1 to September 30 - Limit of 10.0mg/L (loading of 27.3kg/day)

* **The sewage works effluent sample results demonstrated compliance with microbiological parameter limits prescribed by the Environmental Compliance Approval.**

  Effluent E.coli sampling is required on a weekly basis, with compliance based on the geometric mean density on a monthly basis.

  Over the inspection period, monthly E.coli geometric mean results ranged from 1.8 - 51cfu/100mL, well within the ECA limit of 200cfu/100mL.

* **The sewage works effluent sample results did not demonstrate compliance with additional limits prescribed by Environmental Compliance Approval.**

  Other parameters listed in Condition 7 include pH and acute lethality.

  pH testing is required on a weekly basis (grab sample) with compliance based on each individual sample. Operators check the pH four (4) times per week as part of their regular plant checks. The ECA requires pH be maintained within the range 6.0 - 9.5, results indicate both inhouse testing and testing completed by an accredited laboratory are all within this range (6.25 - 8.51).

  Condition 7(4) requires that the effluent is non-acutely lethal to rainbow trout and Daphnia Magna. This is a grab sample completed on an annual basis. This was completed in October 2015 with the original sample indicating results for Daphnia magna as 10% mortality. The MOECC requirements for acute lethality compliance is 50% mortality. A resample was conducted which indicated 100% mortality for Daphnia magna. Another resample was conducted with 0% mortality for both Daphnia magna and rainbow trout. The previous annual sample also failed the initial test in March 2014. Condition 9(6) of the ECA describes actions to be taken in the event of an acute lethality testing failure. Ammonia concentrations were well within the ECA limits and is not suspected to be the cause of the failure. Other parameters were also well within the limits and the cause is not known. If there is continued failure of the acute lethality testing in 2016, OCWA shall ensure that an investigation is completed to determine what control measures, if any, are appropriate to achieve non-acutely lethal effluent. If control measures are not appropriate, a written explanation of the reasons why control measures are not necessary shall be completed as required under Condition 9(6).

* **The sewage works effluent sample results did not meet the effluent objectives stated in the Environmental Compliance Approval.**

  Condition 6 of the ECA specifies effluent objectives which the plant shall use best efforts to meet. Objectives for CBOD5 (15.0mg/L), Total Ammonia Nitrogen (10.0mg/L November 1 - May 31 and 5.0mg/L June 1 - October 31) and E.coli (150cfu/100mL) were all met. Additional best efforts shall be made to operate within the rated capacity and operate such that the effluent is non-acutely lethal. These objectives were not met and have been discussed in this report.

EFFLUENT QUALITY AND QUANTITY

Effluent pH was maintained within the objective of 6.5 - 9.0 with the exception of three (3) readings in 2014 that were slightly below the objective but still well within the limits (6.49, 6.39 and 6.25).

Total Phosphorus monthly concentration for May 2014 slightly exceeded the objective of 0.8mg/L at 0.89mg/L; however, this was still well within the monthly limit of 1.0mg/L and was the only exceedance of this objective.

Total Suspended Solids did not meet the effluent objective of 15.0mg/L with an annual average for 2014 of 17.1mg/L. This objective was also not met in 2013 at 18.7mg/L.

* **The inspector collected audit samples during the inspection.**

A sample of final effluent was taken for microbiological analysis as part of the inspection.

* **The results of audit samples collected by the Inspector met the effluent limits or operational guidelines.**

The final effluent microbiological audit sample result was <4.0 CFU/100mL for E.coli and 8 CFU/100mL for fecal streptococcus. Microbiological results depend on a geometric mean density for compliance purposes; however, this single sample result is well within the ECA limit of 200 CFU/100mL for E.coli.

MONITORING REQUIREMENTS

* **The sampling requirements were prescribed by the Environmental Compliance Approval.**

Raw sewage composite sampling for CBOD5 and TSS is required on a monthly basis.

Raw sewage composite sampling for TP and TKN is required on a weekly basis.

Effluent composite sampling for CBOD5 and TSS is required on a monthly basis.

Effluent composite sampling for TP and TAN is required on a weekly basis.

Effluent grab sampling for E.coli, pH and temperature is required on a weekly basis.

Unionized ammonia is also to be calculated on a weekly basis, with pH and temperature taken at the time of sampling for TAN and used in the calculation for unionized ammonia.

Effluent grab sample for acute lethality testing is required on an annual basis.

* **All sewage works effluent sampling requirements prescribed by the Environmental Compliance Approval were met.**

All effluent sampling requirements cited in Condition 9 have been met. There was one incident in August 2014 where OCWA requested total phosphorus analysis on the chain of custody but was not tested by lab.

* **All sewage works influent (raw sewage) sampling requirements prescribed by the Environmental Compliance Approval were met.**

All raw sewage sampling requirements cited in Condition 9 have been met. There was one incident in August 2014 where OCWA requested total phosphorus analysis on the chain of custody but was not tested by lab.

* **The owner had maintained the monitoring records for the period prescribed by the Environmental Compliance Approval.**

* **The owner had maintained the monitoring records since the date of the last inspection.**

MONITORING REQUIREMENTS

* **All exceedances of any parameters were reported in accordance with the Environmental Compliance Approval.**

  Verbal and written reporting has been completed as required.

REPORTING REQUIREMENTS

* **The reporting requirements were prescribed by an Environmental Compliance Approval.**

  Reporting requirements are prescribed under Condition 10 of the ECA.

* **The annual performance reports met the submission and contents requirements of the Environmental Compliance Approval.**

  An annual report is prepared each year as required under Condition 10(6).

  The report shows sample results compared to ECA effluent limits and objectives for CBOD5, Total Suspended Solids, Total Phosphorus and E.coli. Graphs demonstrate compliance with loading values and pH readings. It is recommended that the actual sample result values be included for loadings and pH readings, including the comparison to effluent limits and/or objectives in order to demonstrate compliance with the ECA.

BYPASSES AND OVERFLOWS

* **The owner/operating authority of the sewage works requested consent prior to all planned bypasses/overflows and provided written reports to the Ministry, in accordance with O.Reg. 675/98, section 4.**

  A planned bypass was requested in June 2014 to allow maintenance on the SBR tanks to be completed. Provincial Officer's Order 1-BHAZ8 was issued to allow this work to be completed. One (1) SBR tank was to be taken out of service while the other two (2) continued to provide treatment to the incoming flows. The reason for this work was to remove accumulated solids, grit and debris from the tank. This work was postponed and has not been completed to date.

  Considering this work was requested as part of essential maintenance to the system, the Order will remain open until this work is complete. A minimum of twenty-four (24) hours notice to the undersigned Water Inspector is required prior to starting the work. A copy of the Order is attached in the Appendices.

BIOSOLIDS MANAGEMENT

* **The owner was maintaining records of the amount of biosolids generated at the sewage works.**

  The Town was responsible for removal and hauling of biosolids and OCWA will be taking care of this going forward.

* **The owner of the facility had written contingency plans or other management methods in place to be used in the event that the facility's sludge storage capacity was not sufficient.**

* **The sewage biosolids intended for land application were sampled in accordance with regulatory requirements.**

  OCWA samples biosolids generally on a monthly basis.

* **The sewage biosolids intended for land application met the material quality and sampling frequency criteria specified in the guidelines.**

BIOSOLIDS MANAGEMENT

* **The quality of sewage biosolids intended for land application complied with regulatory requirements.**

  Sample results indicate that the biosolids are acceptable for land application under the NASM plans.

* **Testing for biosolids required by legislation was conducted by accredited laboratories.**

* **The facility did not receive sludge or biosolids from another location.**

* **The owner had maintained haulage records for the biosolids transferred from the sewage works.**

  OCWA provided the biosolids haulage information.

* **Records confirm that biosolids were transferred to a Ministry approved facility for disposal or utilization.**

  Biosolids are applied to agricultural land under approved NASM Plans.

* **Records confirm that biosolids were transported for disposal or utilization by Ministry approved haulers.**

  In 2014, biosolids were hauled under ECA #3622-5SEK2V. In 2015, biosolids were hauled by Terratec Environmental.

CERTIFICATION AND TRAINING

* **The classification certificates of the subsystems were conspicuously displayed at the workplace or at premises from which the subsystem was managed.**

  The plant is a Class II Wastewater Treament Plant and a Class I Wastewater Collection System.

* **Operator licences were displayed in a conspicuous location at the workplace or at the premises from which the subsystem was managed.**

* **The overall responsible operator had been designated for the wastewater treatment and collection works.**

  OCWA provides an appropriately certified operator to act as the Overall Responsible Operator (ORO) at all times for both treatment and collection. The ORO is noted in the logbook each day.

* **An adequately licensed operator was designated to act in place of the overall responsible operator when the overall responsible operator was unable to act.**

  A back-up ORO who is also properly certified can act if the main ORO is unavailable.

* **All operators had the appropriate level of licences for the wastewater treatment and collection works.**

* **Only licenced operators made adjustments to the treatment equipment.**

CERTIFICATION AND TRAINING

* **Operators-in-charge were designated for the wastewater treatment plant and all associated collection works.**

  Operators in Charge (OIC) are noted in the logbook each day.

* **The operator-in-charge ensured that records were maintained of all adjustments made to the processes within his or her responsibility.**

LOGBOOKS

* **The logs and other record keeping mechanisms complied with the record keeping requirements.**

  Operators record detailed actions taken in the logbook.

* **Logs and other record keeping mechanisms were available for at least two (2) years.**

OPERATIONS MANUALS

* **The operations and maintenance manuals met the requirements of the Environmental Compliance Approval.**

  The Deep River WWTP Standard Operating Procedures (SOP) Manual includes numerous procedures, plans and policies for the operation of the plant. A Facility Emergency Plan is also available at the plant, which includes contingency plans for emergency situations. Both manuals are tracked for updates and changes, including revision history complete with dates of revisions and the reason for the change.

* **Operators and maintenance personnel had ready access to operations and maintenance manuals.**

  The manuals are available at the plant.

* **The operations and maintenance manuals contained up-to-date plans, drawings and process descriptions sufficient for the safe and efficient operation of the system.**

CONTINGENCY/EMERGENCY PLANNING

* **Spill containment was provided for the process chemicals and/or standby power generator fuel.**

  Aluminum sulphate is the only chemical used in the process. The two (2) bulk alum tanks and day tank are enclosed within the containment area.

* **The owner had provided security measures for the facility.**

  The plant is locked and alarmed for intrusion and is surrounded by fencing with locking gate access.

NON-COMPLIANCE WITH REGULATORY REQUIREMENTS AND ACTIONS REQUIRED

This section provides a summary of all non-compliance with regulatory requirements identified during the inspection period, as well as actions required to address these issues. Further details pertaining to these items can be found in the body of the inspection report.

1. **The owner was not in compliance with the conditions associated with maximum flow rate or the rated capacity prescribed by the Environmental Compliance Approval.**

   The rated capacity is 2727m³ as stated in the ECA. Average daily flows in 2014 were 3027m³ (111% of rated capacity).

   The collection system is separated; however, the plant experiences higher flows that occur throughout the year, during the spring melt as well as during any precipitation event. Inflow and/or infiltration is strongly suspected to be occurring within the collection system. Flows increased in April 2014 with monthly average flows above 3000m³/day which continued for the rest of the year until December, which was still above the capacity. Flows for 2015 have been less than in 2014 but still remain above the rated capacity and is expected to be at or above capacity for the 2015 calendar year.

   The Town has conducted flushing and camera work in 2014 and 2015 as part of an inspection program to determine where the infiltration and/or inflow is occurring; however, problem areas have not yet been identified and no repairs have been conducted. Efforts should be taken to reduce the infiltration/inflow within the collection system prior to any upgrades to the plant.

   Action(s) Required:
   A written report is required to be submitted to the undersigned Water Inspector, by no later than June 30, 2016, outlining the results of the inspection program, including flushing and camera work. Identification of problem areas, if any, and written plans to reduce or eliminate the inflow/infiltration within the collection system should be included.

2. **The owner of the sewage works had not prepared a written statement certified by a Professional Engineer confirming that the proposed works were constructed in accordance with the Environmental Compliance Approval.**

   Condition 4(1) of the ECA requires upon the substantial completion of the Proposed Works, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with the ECA, and upon request, shall make the written statement available for inspection by Ministry personnel.

   This statement could not be located for inspection.

   Action(s) Required:
   The Owner shall ensure that the statement of substantial completion has been prepared and certified by a Professional Engineer.

3. **The sewage works effluent sample results did not demonstrate compliance with additional limits prescribed by Environmental Compliance Approval.**

   Acute lethality testing did not meet the effluent limits criteria in the ECA for 2014 and 2015.

   Action(s) Required:
   No action is required at this time. If there is continued failure of the acute lethality testing in 2016, OCWA shall ensure that an investigation is completed to determine what control measures, if any, are appropriate to achieve non-acutely lethal effluent. If control measures are not appropriate, a written explanation of the reasons why control measures are not necessary shall be completed as required under Condition 9(6).

SUMMARY OF RECOMMENDATIONS AND BEST PRACTICE ISSUES

This section provides a summary of all recommendations and best practice issues identified during the inspection period. Details pertaining to these items can be found in the body of the inspection report. In the interest of continuous improvement in the interim, it is recommended that owners and operators develop an awareness of the following issues and consider measures to address them.

1. **The sewage works effluent sample results did not meet the effluent objectives stated in the Environmental Compliance Approval.**

   Best efforts shall be made to operate within the rated capacity and operate such that the effluent is non-acutely lethal. These objectives were not met and have been discussed in this report.

   Effluent pH was maintained within the objective of 6.5 - 9.0 with the exception of three (3) readings in 2014 that were slightly below the objective but still well within the limits (6.49, 6.39 and 6.25).

   Total Phosphorus monthly concentration for May 2014 slightly exceeded the objective of 0.8mg/L at 0.89mg/L; however, this was still well within the monthly limit of 1.0mg/L and was the only exceedance of this objective.

   Total Suspended Solids did not meet the effluent objective of 15.0mg/L with an annual average for 2014 of 17.1mg/L. This objective was also not met in 2013 at 18.7mg/L.

   Recommendation:
   No specific action is required at this time. Best efforts shall be used to operate within all objectives.

SIGNATURES

Inspected By:	Signature: (Provincial Officer):
Jen Bitten	
Reviewed & Approved By:	Signature: (Supervisor):
James Mahoney	
Review & Approval Date:	25/01/2016 (dd/mm/yyyy)

Note: This inspection does not in any way suggest that there is or has been compliance with applicable legislation and regulations as they apply or may apply to this facility. It is, and remains, the responsibility of the owner and/or operating authority to ensure compliance with all applicable legislative and regulatory requirements.

APPENDIX A

AUDIT SAMPLE RESULTS

Ontario Ministry of the Environment and Climate Change
Laboratory Services Branch - 125 Resources Road
Etobicoke, Ontario M9P 3V6
FINAL REPORT(manager4)

Login: **C224896**

Print Date: Nov. 02, 2015 01:05 PM By REPORTADMIN

**** FINAL ****

Program Code 130152401

Program: MOE OPERATIONS DIVISION
Study: SEWAGE, COMMUNAL (INCLUDES SWIP)
Project: EASTERN REGION - OTTAWA DIST.
Activity: IMPACT STUDIES
Organization: ER-SDWB-OTTAWA DISTRICT OFFICE

Org. Id: 410803

Mail this copy to :

BITTEN, JEN
MOE - OTTAWA DISTRICT OFFICE
2430 DON REID DRIVE
OTTAWA,ONT
K1H 1E1

Final reports to :
MAHONEY, JIM
DEBARROS, CAROL
BITTEN, JEN

Approved for release by :

Inquiries to :
DAVE MORSE
CHUNYAN HAO

Telephone : 416-235-5989
Telephone : 416-235-6033

LOGIN DESCRIPTION: DEEP RIVER WWTP JEN BITTEN OTTAWA 613-521-3450

The results relate only to items tested.
To provide customer service feedback on this report and/or other services provided by LaSB, please contact the LaSB HelpDesk at 416-235-6030 or the Customer Service Manager at 416-235-5831

Login: **C224896**

Print Date: Nov. 02, 2015 01:05 PM By REPORTADMIN

**** FINAL ****

Field Id	Station ID	Sample Location Description	Sampling Date	Time	Zone	Sampler Information
JCB-DRWW-01	120000612	DEEP RIVER FINAL EFFLUENT GRAB	28 OCT 2015	10:20	5	

Sample ID: C224896-0001

Sample Comment Description

MOE*LIMS Products Requested:

TE	E3371A	ECFS3371

UTM:

Zone	Easting	Northing	Collection Method	Map Datum	Accuracy (metres)
231	308556	5108349	GPS	NAD83	6-10M

Login: **C224896**

Print Date: Nov. 02, 2015 01:05 PM By REPORTADMIN

**** FINAL ****

Field ID:	JCB-DRWW-01
Sample ID:	C224896-0001
MOE*LIMS ID:	2015TE43-00025
Station ID:	120000612
Collect Date:	28 OCT 2015
Sample Location Description:	DEEP RIVER FINAL EFFLUENT GRAB
Sample Comments Description:	

Listid	Parmname	Value	Units	Qual	Rmk1	Rmk2
3371L9	Escherichia coli	4.0	CFU/100mL	<	>10C	
	Fecal streptococcus	8.0	CFU/100mL		>10C	

CODE	DESCRIPTION
>10C	RECD>10C. DATA MAY NOT REFLECT THAT OF ORIG.SAMPLE
<	ACTUAL RESULT IS LESS THAN THE REPORTED VALUE

TEXT COMMENT

Product Completion

Sample ID	Matrix	Method	Product	Analytical Department	Completion Date
C224896-0001	TE	E3371A	ECFS3371	6515	02-NOV-15

LaSB Method Summary

Method	Method Description	Status	Status Description
E3371A	A MEMBRANE FILTRATION METHOD FOR THE DETECTION AND ENUMERATION OF TOTAL COLIFORM, ESCHERICHIA COLI, PSEUDOMONAS AERUGINOSA AND FECAL STREPTOCOCCI	ROUTINE	Method has been fully validated, is deemed fit for purpose and has the associated Uncertainty information available upon request

*** End of Report ***

APPENDIX B

ENVIRONMENTAL COMPLIANCE APPROVAL(S)

AMENDED CERTIFICATE OF APPROVAL
MUNICIPAL AND PRIVATE SEWAGE WORKS
NUMBER 1655-7P8SPE
Issue Date: February 26, 2009

The Corporation of the Town of Deep River
100 Deep River Rd
Post Office Box, No. 400
Deep River, Ontario
K0J 1P0

Site Location: Deep River Sewage Treatment Plant
1 Cedar Rd
Deep River, County of Renfrew

You have applied in accordance with Section 53 of the Ontario Water Resources Act for approval of:

Alterations and upgrades to the municipal sewage treatment works at the above site location (UTM coordinates 18N 308450, 5108320) for the treatment and disposal of sewage, having a *Rated Capacity* of 2,727 m^3/d and consisting of the following:

PROPOSED WORKS

Sludge Digestion and Storage Facilities

- three (3) existing de-commissioned Imhoff tanks converted into digested sludge storage tanks providing an additional 1,200 m^3 digested sludge storage capacity, equipped with and coarse bubble aeration mixing system, recirculation/transfer/loading pumps and pipe line to the existing digested sludge storage tank and truck loading station;
- a compressor building equipped with one (1) 15 hp compressor for the aeration mixing system,

EXISTING WORKS

Inlet Sewers

- 610 mm and 380 mm diameter inlet sewers, inlet chamber and connecting sewers to the sewage pumping station;

Sewage Pumping Station

- a 3.0 m diameter wet well equipped with two (2) variable speed submersible sewage pumps (one as

standby), each having a rated capacity of 140 L/s at 7.8 m T.D.H.;
- a 300 mm diameter raw sewage forcemain to the Inlet Works of the sewage treatment plant, and an overflow pipe discharging into the plant by- pass treatment system;

Inlet Works

- two (2) 70 L/s capacity sewage grinders;

Grit Removal System

- one (1) 140 L/s capacity pressurized vortex grit removal unit, one (1) grit pumps and one (1) grit classifier/dewatering unit;

Sequencing Batch Reactors

- three (3) sequencing batch reactors, each approximately 19.67 m X 7.6 m x 6.1 m S.W.D. and equipped with a jet aeration system, a decanter system, a mixing pump and a sludge pump;

Air Blowers

- four (4) air blowers (one as standby), each having a capacity of 425 m^3/h;

Phosphorous Removal System

- two (2) 18,900 L capacity chemical storage tank and two (2) metering pumps (one as stand-by), each capable of pumping at a rate of 53.2 L/h, with chemical addition point downstream of the grit removal unit;

Effluent Disinfection System

- a 306 m^3 capacity effluent storage tank and a UV disinfection system having a *peak flow rate* of 120 L/s;

Plant Bypass Treatment System

- a plant by-pass chlorination facility, with a 22.5 m^3 capacity chlorine contact channel, a hypochlorite solution storage tank and a metering pump;

Effluent Discharge Outfall System

- an effluent discharge pipe and outfall discharging into the Ottawa River;

Sludge Digestion and Storage Facilities

- a single-stage aerobic sludge digester having a total capacity of 427 m^3, with fine-bubble aeration

systems supplied by two (2) 767 m^3/h capacity air blowers (one as standby) and equipped with a digested sludge transfer pump;

- a 1,585 m^3 capacity digested sludge storage tank equipped with decanting device and piping back to the inlet works and a sludge recirculating/loading pump;

Stand-by Power Generator

- a 350 kW stand-by diesel generator set with two (2) 1,136 L capacity fuel storage tanks;

Miscellaneous

- all other controls, electrical equipment, instrumentation, piping, pumps, valves and appurtenances essential for the proper operation of the aforementioned sewage works;

all in accordance with the following submitted supporting documents:

1. Addendum to the Environmental Study Report, engineering plans and specifications prepared by Thorburn Penny Limited;
2. Application for Approval of Municipal and Private Sewage Works to amend effluent criteria for Total Ammonia submitted by Ardon Erel of Jp2g Consultants Inc. dated December 16, 2004;
3. Application for Approval of Municipal and Private Sewage Works to expand biosolids storage capacity submitted by J.M. Janota of Jp2g Consultants Inc. received December 8, 2008 including Design Brief and preliminary drawings;
4. Final plans submitted by John Vandergeest of Jp2g Consultants Inc. received February 10, 2009.

For the purpose of this Certificate of Approval and the terms and conditions specified below, the following definitions apply:

"*Act* " means the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended;

"*Annual Average Concentration* " means the arithmetic mean of the *Monthly Average Concentrations* of a contaminant in the effluent calculated for any particular calendar year;

"*Annual Average Loading* " means the value obtained by multiplying the *Annual Average Concentration* of a contaminant by the *Average Daily Flow* over the same calendar year;

"*Average Daily Flow* " means the cumulative total sewage flow to the sewage works during a calendar year divided by the number of days during which sewage was flowing to the sewage works that year;

"*BOD5* " (also known as $TBOD_5$) means five day biochemical oxygen demand measured in an unfiltered sample and includes carbonaceous and nitrogenous oxygen demand;

"*By-pass*" means any discharge from the *Works* that does not undergo any treatment or only receives partial treatment before it is discharged to the environment;

"*CBOD5* " means five day carbonaceous (nitrification inhibited) biochemical oxygen demand measured in an unfiltered sample;

"*Certificate* " means this entire certificate of approval document, issued in accordance with Section 53 of the *Act* , and includes any schedules;

"*Daily Concentration* " means the concentration of a contaminant in the effluent discharged over any single day, as measured by a composite or grab sample, whichever is required;

"*Director* " means any *Ministry* employee appointed by the Minister pursuant to section 5 of the *Act* ;

"*District Manager* " means the District Manager of the Ottawa District Office of the Ministry;

"*E. Coli* " refers to the thermally tolerant forms of Escherichia that can survive at 44.5 degrees Celsius;

"Existing Works " means those portions of the sewage works previously constructed and existing on-site on the date of issuance of this *Certificate* ;

"*Geometric Mean Density* " is the nth root of the product of multiplication of the results of n number of samples over the period specified;

"*Ministry* " means the Ontario Ministry of the Environment;

"*Monthly Average Concentration* " means the arithmetic mean of all *Daily Concentrations* of a contaminant in the effluent sampled or measured, or both, during a calendar month;

"*Monthly Average Daily Flow* " means the cumulative total sewage flow to the sewage works during a calendar month divided by the number of days during which sewage was flowing to the sewage works that month;

"*Monthly Average Loading* " means the value obtained by multiplying the *Monthly Average Concentration* of a contaminant by the *Monthly Average Daily Flow* over the same calendar month:

"*Owner* " means the Corporation of the Town of Deep River and includes its successors and assignees;

"*Peak Flow Rate* " means the maximum rate of sewage flow for which the plant or process unit was designed;

"*Rated Capacity "* means the *Average Daily Flow* for which the *Works* are approved to handle;

"*Regional Director* " means the Regional Director of the Eastern Region of the Ministry; and

"*Works* " means the sewage works described in the *Owner* 's application, this *Certificate* and in the supporting documentation referred to herein, to the extent approved by this *Certificate* and includes both *Existing Works* and *Proposed Works* .

You are hereby notified that this approval is issued to you subject to the terms and conditions outlined below:

TERMS AND CONDITIONS

1. GENERAL PROVISIONS

(1) The *Owner* shall ensure that any person authorized to carry out work on or operate any aspect of the *Works* is notified of this *Certificate* and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.

(2) Except as otherwise provided by these Conditions, the *Owner* shall design, build, install, operate and maintain the *Works* in accordance with the description given in this *Certificate* , the application for approval of the works and the submitted supporting documents and plans and specifications as listed in this *Certificate* .

(3) Where there is a conflict between a provision of any submitted document referred to in this *Certificate* and the Conditions of this *Certificate* , the Conditions in this *Certificate* shall take precedence, and where there is a conflict between the listed submitted documents, the document bearing the most recent date shall prevail.

(4) Where there is a conflict between the listed submitted documents, and the application, the application shall take precedence unless it is clear that the purpose of the document was to amend the application.

(5) The requirements of this *Certificate* are severable. If any requirement of this *Certificate* , or the application of any requirement of this *Certificate* to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this certificate shall not be affected thereby.

(6) The approval granted by this *Certificate* is based upon a review of the *Works* in the context of its effect on the environment, its process performance and general principles of wastewater engineering. The review did not include a consideration of the architectural, mechanical, electrical or structural components and minor details of the *Works* except to the extent necessary to review the *Works* .

2. EXPIRY OF APPROVAL

The approval issued by this *Certificate* will cease to apply to those parts of the *Works* which have not been constructed within five (5) years of the date of this *Certificate* .

3. CHANGE OF OWNER

(1) The *Owner* shall notify the *District Manager* and the *Director*, in writing, of any of the following changes within 30 days of the change occurring:

(a) change of *Owner*;

(b) change of address of the *Owner*;

(c) change of partners where the *Owner* is or at any time becomes a partnership, and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c.B17 shall be included in the notification to the *District Manager*;

(d) change of name of the corporation where the *Owner* is or at any time becomes a corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C39 shall be included in the notification to the *District Manager*;

(2) In the event of any change in ownership of the *Works*, other than a change to a successor municipality, the *Owner* shall notify in writing the succeeding owner of the existence of this *Certificate*, and a copy of such notice shall be forwarded to the *District Manager* and the *Director*.

4. UPON THE SUBSTANTIAL COMPLETION OF THE WORKS

(1) Upon the *Substantial Completion* of the *Proposed Works*, the Owner shall prepare a statement, certified by a Professional Engineer, that the works are constructed in accordance with this *Certificate*, and upon request, shall make the written statement available for inspection by Ministry personnel.

(2) Within six (6) months of the *Substantial Completion* of the *Proposed Works*, a set of as-built drawings showing the works "as constructed" shall be prepared. These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the *Works* for the operational life of the *Works*.

5. BY-PASSES

(1) Any *By-pass* of sewage from any portion of the *Works* is prohibited, except where:

(a) it is necessary to avoid loss of life, personal injury, danger to public health or severe property damage;

(b) the *District Manager* agrees that it is necessary for the purpose of carrying out essential maintenance and the *District Manager* has given prior written acknowledgment of the *by-pass*; or

(c) the *Regional Director* has given prior written acknowledgment of the *By-pass*.

(2) The *Owner* shall collect at least one (1) grab sample of the *By-pass* and have it analyzed for the

parameters outlined in Condition 7 using the protocols in Condition 9.

(3) The *Owner* shall maintain a logbook of all *By-pass* events which shall include, at a minimum, the time, location, duration, quantity of *By-pass* , the authority for *By-pass* pursuant to subsection (1), and the reasons for the occurrence.

(4) The *Owner* shall, in the event of a *By-pass* event pursuant to subsection (1), disinfect the by-passed effluent prior to it reaching the receiver such that the receiver is not negatively impacted.

6. EFFLUENT OBJECTIVES

(1) The *Owner* shall use best efforts to design, construct and operate the *Works* with the objective that the concentrations of the materials named below as effluent parameters are not exceeded in the effluent from the *Works* .

Table 1 - Effluent Objectives

Effluent Parameter	**Concentration Objective** (milligrams per litre unless otherwise indicated)
CBOD5	15.0
Total Suspended Solids	15.0
Total Phosphorus	0.8
Total Ammonia Nitrogen	10.0 (Nov 1 to May 31) 5.0 (Jun 1 to Oct 31)
E. Coli	150 organisms/100 mL Monthly *Geometric Mean Density*

(2) The *Owner* shall use best efforts to:

(a) maintain the pH of the effluent from the *Works* within the range of 6.5 to 9.0, inclusive, at all times;

(b) operate the *works* within the *Rated Capacity* of the *Works* ;

(c) ensure that the effluent from the *Works* is essentially free of floating and settleable solids and does not contain oil or any other substance in amounts sufficient to create a visible film or sheen or foam or discolouration on the receiving waters;

(d) operate and maintain the *works* such that the effluent from the *works* is non-acutely lethal.

(3) The *Owner* shall include in all reports submitted in accordance with Condition 9 a summary of the efforts made and results achieved under this Condition.

7. EFFLUENT LIMITS

(1) The *Owner* shall design and construct the *Proposed Works* and operate and maintain the *Works*

such that the concentrations and waste loadings of the materials named below as effluent parameters are not exceeded in the effluent from the *Works* .

Table 2 - Effluent Limits		
Effluent Parameter	**Average Concentration** (milligrams per litre unless otherwise indicated)	**Average Waste Loading** (kilograms per day unless otherwise indicated)
Column 1	Column 2	Column 3
CBOD5	25.0	68.2
Total Suspended Solids	25.0	68.2
Total Phosphorus	1.0	2.7
Total Ammonia Nitrogen	25.0 (Nov 1 to Apr 30) 20.0 (May 1 to May 31) 15.0 (Jun 1 to Jun 30) 10.0 (Jul 1 to Sep 30) 15.0 (Oct 1 to Oct 31)	68.2 (Nov 1 to Apr 30) 54.5 (May 1 to May 31) 40.9 (Jun 1 to Jun 30) 27.3 (Jul 1 to Sep 30) 40.9 (Oct 1 to Oct 31)
pH of the effluent maintained between 6.0 to 9.5, inclusive, at all times		

(2) For the purposes of determining compliance with and enforcing subsection (1):

(a) The *Annual Average Concentration* of *CBOD5* and Total Suspended Solids named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).

(b) The *Monthly Average Concentration* of Total Phosphorus named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration set out in Column 2 of subsection (1).

(c) The *Monthly Average Concentration* of Total Ammonia Nitrogen named in Column 1 of subsection (1) shall not exceed the corresponding maximum concentration for the seasonal period set out in Column 2 of subsection (1).

(d) The *Annual Average Loading* of *CBOD5* , Total Suspended Solids and Total Phosphorus named in Column 1 of subsection (1) shall not exceed the corresponding maximum waste loading set out in Column 3 of subsection (1).

(e) The *Monthly Average Loading* of Total Ammonia Nitrogen named in Column 1 of subsection (1) shall not exceed the corresponding maximum waste loading for the seasonal period set out in Column 3 of subsection (1).

(f) The pH of the effluent shall be maintained within the limits outlined in subsection (1), at all times.

(3) Notwithstanding subsection (1), the *Owner* shall operate and maintain the *Works* such that the effluent is continuously disinfected so that the monthly *Geometric Mean Density* of *E. Coli* does not exceed 200 organisms per 100 millilitres of effluent discharged from the *works* .

(4) Notwithstanding subsections (1) and (2), the *Owner* shall operate and maintain the *Works* such that the effluent is non-acutely lethal to rainbow trout and *Daphnia magna.*

(5) The effluent requirements set out in subsections (2), (3) and (4) shall apply upon the issuance of this certificate.

8. OPERATION AND MAINTENANCE

(1) The *Owner* shall exercise due diligence in ensuring that, at all times, the *Works* and the related equipment and appurtenances used to achieve compliance with this *Certificate* are properly operated and maintained. Proper operation and maintenance shall include effective performance, adequate funding, adequate operator staffing and training, including training in all procedures and other requirements of this *Certificate* and the *Act* and regulations, adequate laboratory facilities, process controls and alarms and the use of process chemicals and other substances used in the *Works* .

(2) The *Owner* shall prepare an operations manual within six (6) months of *Substantial Completion* of the *Proposed Works* , that includes, but not necessarily limited to, the following information:

(a) operating procedures for routine operation of the *Works* ;

(b) inspection programs, including frequency of inspection, for the *Works* and the methods or tests employed to detect when maintenance is necessary;

(c) repair and maintenance programs, including the frequency of repair and maintenance for the *Works* ;

(d) procedures for the inspection and calibration of monitoring equipment;

(e) a spill prevention control and countermeasures plan, consisting of contingency plans and procedures for dealing with equipment breakdowns, potential spills and any other abnormal situations, including notification of the *District Manager* ; and

(f) procedures for receiving, responding and recording public complaints, including recording any followup actions taken.

(3) The *Owner* shall maintain the operations manual current and retain a copy at the location of the *Works* for the operational life of the *Works* . Upon request, the *Owner* shall make the manual available to *Ministry* staff.

(4) The *Owner* shall provide for the overall operation of the *Works* with an operator who holds a licence that is applicable to that type of facility and that is of the same class as or higher than the class of the facility in accordance with Ontario Regulation 129/04.

9. MONITORING AND RECORDING

The *Owner* shall, upon commencement of operation of the *Works* , carry out the following monitoring program:

(1) All samples and measurements taken for the purposes of this *Certificate* are to be taken at a time and in a location characteristic of the quality and quantity of the effluent stream over the time period being monitored.

(2) For the purposes of this condition, the following definitions apply:

(a) Weekly means once each week;
(b) Monthly means once every month;
(c) Quarterly means once every three months.

(3) Samples shall be collected at the following sampling points, at the frequency specified, by means of the specified sample type and analyzed for each parameter listed and all results recorded:

Table 3 - Raw Sewage Monitoring		
Parameters	**Sample Type**	**Frequency**
CBOD5	Composite	Monthly
Total Suspended Solids	Composite	Monthly
Total Phosphorus	Composite	Weekly
Total Kjeldahl Nitrogen	Composite	Weekly

Table 4 - Effluent Monitoring		
Parameters	**Sample Type**	**Frequency**
CBOD5	Composite	Monthly
Total Suspended Solids	Composite	Monthly
Total Phosphorus	Composite	Weekly
Total Ammonia Nitrogen	Composite	Weekly
E. Coli	Grab	Weekly
Acute Lethality - Rainbow Trout and *Daphnia Magna*	Grab	Quarterly for one year and then annually if no failure occurred
pH	Grab	Weekly
Temperature	Grab	Weekly
Un-ionized Ammonia	Calculated	Weekly

(4) The methods and protocols for sampling, analysis and recording shall conform, in order of precedence, to the methods and protocols specified in the following:

(a) the Ministry's Procedure F-10-1, “Procedures for Sampling and Analysis Requirements for Municipal and Private Sewage Treatment Works (Liquid Waste Streams Only), as amended from time to time by more recently published editions;

(b) the Ministry's publication "Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater" (January 1999), ISBN 0-7778-1880-9, as amended from time to time by more recently published editions;

(c) the publication "Standard Methods for the Examination of Water and Wastewater" (20th edition), as amended from time to time by more recently published editions;

(d) the Environment Canada publications "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Rainbow Trout" (July 1990) and "Biological Test Method: Reference Method for Determining Acute Lethality of Effluents to Daphnia magna" (July 1990), as amended from time to time by more recently published editions; and,

(5) The temperature and pH of the effluent from the *Works* shall be determined in the field at the time of sampling for Total Ammonia Nitrogen. The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended, for ammonia (un-ionized).

(6) At the onset of any testing result showing acute lethality to rainbow trout or *Daphnia magna*, the *Owner* shall follow the steps detailed below to confirm the results, investigate the possible causes take appropriate corrective or control measures as required:

(a) within 24 hours, repeat the acute lethality test for rainbow trout and *Daphnia magna* to verify initial findings and assess if similar conditions continue to persist;

(b) where the acute lethality result is confirmed, the *Owner* shall review the effluent quality and determine if the concentration of ammonia in the acutely lethal effluent is within the established effluent objectives;

(c) if the effluent toxicity is not likely associated with ammonia, an investigation shall be undertaken to determine the possible cause or source of effluent toxicity based on both the concentration of other potential contaminants measured in the effluent during the same period the acutely lethal effluent sample was collected and the plant operations data during the period the acutely lethal sample was collected;

(d) upon determination of the cause or source of acute lethality to rainbow trout and *Daphnia magna*, the *Owner* shall determine what control measures, if any, are appropriate to achieve non-acutely lethal effluent and shall propose time lines for the implementation of identified control measures. The *Owner* shall submit the proposed control measures and implementation time lines for approval to the *District Manager*;

(e) if the *Owner* determines that control measures to achieve non-acutely lethal effluent are not appropriate, the *Owner* shall submit to the *District Manager* a written explanation of the reasons why control measures are not necessary.

(7) The measurement frequencies specified in subsection (2) in respect to any parameter are minimum requirements which may, after 12 months of monitoring in accordance with this Condition, be modified by the *District Manager* in writing from time to time.

(8) The *Owner* shall install and maintain continuous flow measuring device(s), to measure the flowrate of the effluent from the *Works* with an accuracy to within plus or minus 15 per cent (+/- 15%) of the actual flowrate for the entire design range of the flow measuring device, and record the flowrate at a daily frequency.

10. REPORTING

(1) One week prior to the start up of the operation of the *Proposed Works* , the *Owner* shall notify the *District Manager* (in writing) of the pending start up date.

(2) Ten (10) days prior to the date of a planned *By-pass* being conducted pursuant to Condition 5 and as soon as possible for an unplanned *By-pass* , the *Owner* shall notify the *District Manager* (in writing) of the pending start date, in addition to an assessment of the potential adverse effects on the environment and the duration of the *By-pass* .

(3) The *Owner* shall report to the *District Manager* or designate, any exceedence of any parameter specified in Condition 7 orally, as soon as reasonably possible, and in writing within seven (7) days of the exceedence.

(4) In addition to the obligations under Part X of the Environmental Protection Act, the *Owner* shall, within 10 working days of the occurrence of any reportable spill as defined in Ontario Regulation 675/98, bypass or loss of any product, by-product, intermediate product, oil, solvent, waste material or any other polluting substance into the environment, submit a full written report of the occurrence to the *District Manager* describing the cause and discovery of the spill or loss, clean-up and recovery measures taken, preventative measures to be taken and schedule of implementation.

(5) The *Owner* shall, upon request, make all manuals, plans, records, data, procedures and supporting documentation available to *Ministry* staff.

(6) The *Owner* shall prepare, and submit to the *District Manager*, a performance report, on an annual basis, within ninety (90) days following the end of the period being reported upon. The first such report shall cover the first annual period following the commencement of operation of the *Works* and subsequent reports shall be submitted to cover successive annual periods following thereafter. The reports shall contain, but shall not be limited to, the following information:

(a) a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the *Works* ;

(b) a description of any operating problems encountered and corrective actions taken;

(c) a summary of all maintenance carried out on any major structure, equipment, apparatus,

mechanism or thing forming part of the *Works* ;

(d) a summary of any effluent quality assurance or control measures undertaken in the reporting period;

(e) a summary of the calibration and maintenance carried out on all effluent monitoring equipment; and

(f) a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6.

(g) a 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;

(h) a summary of any complaints received during the reporting period and any steps taken to address the complaints;

(i) a summary of all *By-pass* , spill or abnormal discharge events; and

(j) any other information the *District Manager* requires from time to time.

The reasons for the imposition of these terms and conditions are as follows:

1. Condition 1 is imposed to ensure that the *Works* are built and operated in the manner in which they were described for review and upon which approval was granted. This condition is also included to emphasize the precedence of Conditions in the *Certificate* and the practice that the Approval is based on the most current document, if several conflicting documents are submitted for review. The condition also advises the Owners their responsibility to notify any person they authorized to carry out work pursuant to this *Certificate* the existence of this *Certificate* .

2. Condition 2 is included to ensure that the *Works* are constructed in a timely manner so that standards applicable at the time of Approval of the *Works* are still applicable at the time of construction, to ensure the ongoing protection of the environment.

3. Condition 3 is included to ensure that the *Ministry* records are kept accurate and current with respect to the approved works and to ensure that subsequent owners of the *Works* are made aware of the *Certificate* and continue to operate the *Works* in compliance with it.

4. Condition 4 is included to ensure that the *Works* are constructed in accordance with the approval and that record drawings of the *Works* "as constructed" are maintained for future references.

5. Condition 5 is included to indicate that by-passes of untreated sewage to the receiving watercourse is prohibited, save in certain limited circumstances where the failure to *By-pass* could result in greater injury to the public interest than the *By-pass* itself where a *By-pass* will not violate the approved effluent requirements, or where the *By-pass* can be limited or otherwise mitigated by handling it in

accordance with an approved contingency plan. The notification and documentation requirements allow the *Ministry* to take action in an informed manner and will ensure the *Owner* is aware of the extent and frequency of *By-pass* events.

6. Condition 6 is imposed to establish non-enforceable effluent quality objectives which the *Owner* is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliance limits of Condition 7 are exceeded.

7. Condition 7 is imposed to ensure that the effluent discharged from the *Works* to the Ottawa River meets the *Ministry* 's effluent quality requirements thus minimizing environmental impact on the receiver and to protect water quality, fish and other aquatic life in the receiving water body.

8. Condition 8 is included to require that the *Works* be properly operated, maintained, funded, staffed and equipped such that the environment is protected and deterioration, loss, injury or damage to any person or property is prevented. As well, the inclusion of a comprehensive operations manual governing all significant areas of operation, maintenance and repair is prepared, implemented and kept up-to-date by the owner and made available to the *Ministry* . Such a manual is an integral part of the operation of the *Works* . Its compilation and use should assist the *Owner* in staff training, in proper plant operation and in identifying and planning for contingencies during possible abnormal conditions. The manual will also act as a benchmark for *Ministry* staff when reviewing the *Owner'* s operation of the work.

9. Condition 9 is included to enable the *Owner* to evaluate and demonstrate the performance of the *Works* , on a continual basis, so that the *Works* are properly operated and maintained at a level which is consistent with the design objectives and effluent limits specified in the *Certificate* and that the *Works* does not cause any impairment to the receiving watercourse.

10. Condition 10 is included to provide a performance record for future references, to ensure that the *Ministry* is made aware of problems as they arise, and to provide a compliance record for all the terms and conditions outlined in this *Certificate*, so that the *Ministry* can work with the *Owner* in resolving any problems in a timely manner.

This Certificate of Approval revokes and replaces Certificate(s) of Approval No. 3675-68YL58 issued on February 7, 2005.

In accordance with Section 100 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, as amended, you may by written notice served upon me and the Environmental Review Tribunal within 15 days after receipt of this Notice, require a hearing by the Tribunal. Section 101 of the Ontario Water Resources Act, R.S.O. 1990, Chapter 0.40, provides that the Notice requiring the hearing shall state:

1. The portions of the approval or each term or condition in the approval in respect of which the hearing is required, and;
2. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

3. The name of the appellant;

4. The address of the appellant;
5. The Certificate of Approval number;
6. The date of the Certificate of Approval;
7. The name of the Director;
8. The municipality within which the works are located;

And the Notice should be signed and dated by the appellant.

This Notice must be served upon:

The Secretary*****
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, Ontario
M5G 1E5

AND

The Director
Section 53, *Ontario Water Resources Act*
Ministry of the Environment
2 St. Clair Avenue West, Floor 12A
Toronto, Ontario
M4V 1L5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 314-4600, Fax: (416) 314-4506 or www.ert.gov.on.ca**

The above noted sewage works are approved under Section 53 of the Ontario Water Resources Act.

DATED AT TORONTO this 26th day of February, 2009

Mansoor Mahmood, P.Eng.
Director
Section 53, *Ontario Water Resources Act*

FL/

c: District Manager, MOE Ottawa
Joseph Janota, Jp2g Consultants Inc.
Water Standards Section, MOE Standards Development Branch

APPENDIX C

STAKEHOLDER SUPPORT

Helpful Resources for Municipal Wastewater Owners and Operators

Many useful materials are posted on the **Ministry of the Environment's Resources website** to help in the operation of your wastewater system.

Below is a list of key materials frequently used by owners and operators of municipal wastewater systems. To read or download these materials, go to the **Ministry of the Environment's Resources website** and search in the resources section by publication number.

Contact the Public Information Centre if you need assistance or have questions at 1-800-565-4923/416-325-4000 or **picemail.moe@ontario.ca**.

	PUBLICATION NUMBER	PUBLICATION TITLE
Environmental Compliance	2724e01	Protocol for the Sampling and Analysis of Industrial/Municipal Wastewater
	8527e	Guide to Applying for an Environmental Compliance Approval
F-Series	1584e	F-5 Levels Of Treatment For Municipal And Private Sewage Treatment Works Discharging To Surface Waters
	2250e	F-8 Provision And Operation Of Phosphorus Removal Facilities At Municipal, Institutional And Private Sewage Treatment Works
	3074e	F-10 Sampling And Analysis Requirements For Municipal And Private Sewage Treatment Works (Liquid Waste Streams Only)
Other	3303e	Water Management, Policies, Guidelines: Provincial Water Quality Objectives of the Ministry of the Environment
	7699e	Licensing Guide for Operators of Wastewater Treatment Facilities

PIBS 9485b

Ontario

APPENDIX D

PROVINCIAL OFFICER'S ORDER 1-BHAZ8

Ministry of the Environment

Ministère de l'Environnement

Ontario

Provincial Officer's Order

Order Number
1-BHAZ8

Environmental Protection Act, R.S.O. 1990, c.E 19 (EPA)
Nutrient Management Act, R.S.O. 2002, c.4 (NMA)
Ontario Water Resources Act, R.S.O. 1990, c.O. 40 (OWRA)
Pesticides Act, R.S.O. 1990, c. P11 (PA)
Safe Drinking Water Act, S.O. 2002, c.32 (SDWA)

To: DEEP RIVER, TOWN OF
100 DEEP RIVER Rd
DEEP RIVER ON K0J 1P0
Canada

AND

MR. BRAD SWEET, OPERATIONS MANAGER
ONTARIO CLEAN WATER AGENCY
OTTAWA VALLEY HUB
560 ABBIE LANE
PETAWAWA, ON K8H 2X2
Canada

Site: WW DEEP RIVER WPCP
1 CEDAR RD,
DEEP RIVER, ON, K0J 1P0,
Canada

Work Ordered

Pursuant to my authority under Section 16.1 of the Ontario Water Resources Act, I hereby acknowledge the request for a planned bypass of the wastewater treatment system servicing the Town of Deep River. The proposal to complete the required maintenance on the wastewater treatment system is accepted given that the following conditions are met:

1) One (1) SBR tank will be taken out of service while two (2) other SBR tanks remain in service to provide treatment to incoming flows. Disinfection will be provided at all times.

2) The clean out will take approximately one (1) day in duration to complete, with a minimum of twenty-four (24) hours notice provided to the issuing Provincial Officer prior to starting the work.

3) The effluent will be sampled as per the Environmental Compliance Approval #1655-7P8SPE, Condition 5 for bypasses. At least one (1) grab sample is required, sampling for the parameters listed in Table 2 - Effluent Limits of the ECA; however, a composite sample is recommended to collect a representative sample of the effluent over the entire duration of the work. A grab sample for E.coli is required during the course of the work. The samples taken during the work are in addition to the regular weekly effluent samples required under Condition 9 of the ECA.

4) Within ten (10) business days after the completion of the maintenance, the Owner or Operating Authority shall submit to the issuing Provincial Officer, Jen Bitten, Ministry of the Environment at 2430 Don Reid Drive, Ottawa, Ontario, K1H 1E1, Email: jen.bitten@ontario.ca, a written report of the event describing the work completed, preventative measures taken if any, duration, estimated volume of the bypass if possible and a copy of the sample results collected as required by item number 3 of this Order.

A. While this Order is in effect, a copy or copies of this order shall be posted in a conspicuous place.

B. While the Order is in effect, report in writing, to the District or Area Office, any significant changes of operation, emission, ownership, tenancy or other legal status of the facility or operation.

This Order is being issued for the reasons set out in the annexed Provincial Officer's Report which forms part of the Order.

Issued at Ottawa this 24/06/2014 (dd/mm/yyyy).

_____

Jen Bitten

Badge Number:

Ministry of the Environment

Ministère de l'Environnement

Ontario

Provincial Officer's Report

Order Number
1-BHAZ8

DEEP RIVER, TOWN OF
100 DEEP RIVER Rd
DEEP RIVER ON K0J 1P0
Canada

AND

MR. BRAD SWEET, OPERATIONS MANAGER
ONTARIO CLEAN WATER AGENCY
OTTAWA VALLEY HUB
560 ABBIE LANE
PETAWAWA, ON K8H 2X2
Canada

Site:
1 CEDAR RD,
DEEP RIVER, ON, K0J 1P0,
Canada

Observations

1. Authority to Issue Order

This Order is issued pursuant to Section 16.1 of the Ontario Water Resources Act, R.S.O. 1990, CHAPTER O.40, as amended ("OWRA").

The reasons for the order and the circumstances on which the reasons are based are briefly described below in the Summary of Events Leading Up to Order section. I believe that the requirements specified in this Order are necessary to address the circumstances on which the reasons are based.

I further reasonably believe that it is reasonable to allow a temporary discharge of effluent from the sewage works in order to complete essential maintenance on the works.

2. Definitions

For the purposes of this Order, the following terms shall have the meanings described below:

"By-pass" means any discharge from the Works that does not undergo any treatment or only undergoes partial treatment before it is discharged to the environment.

“Environmental Compliance Approval” means an approval issued under Part II.1 of the Environmental Protection Act.

"Ministry" means the Ontario Ministry of the Environment.

"Operating Authority" means Ontario Clean Water Agency (OCWA).

"Order" means this Provincial Officer's Order No. 1-BHAZ8, as may be amended.

"Owner" means The Corporation of the Town of Deep River.

"OWRA" means the Ontario Water Resources Act, R.S.O. 1990, Chapter O.40, as amended.

"Provincial Officer" means the issuing Provincial Officer or, in the event that the Provincial Officer is unable to act, any other Provincial Officer authorized to act pursuant to the Safe Drinking Water Act.

"SBR" means the Sequencing Batch Reactor treatment system.

3. Summary of Events Leading up to Order

On June 9, 2014 a written request for a planned bypass was received from Brenda Royce, Process and Compliance Technician with OCWA Ottawa Valley Hub, in order to to complete essential maintenance at the Deep River Wastewater Treatment Plant which will require taking one (1) process tank out of service. Taking one (1) of the three (3) process tanks out of service may cause effluent quality to be affected and based on the flows anticipated, this would be considered a bypass of the treatment system. Only two (2) process tanks will remain in service to provide treatment for all incoming flows.

The Deep River Wastewater Treatment Plant is located at 1 Cedar Road in Deep River and provides secondary treatment using three (3) Sequencing Batch Reactors (SBR) and UV disinfection prior to discharging to the Ottawa River. The plant is rated to 2727m³/day with average daily flows for 2013 of 2549m³/day.

The essential maintenance includes a complete clean-out of one (1) SBR tank, including removing all accumulated sludge and debris from the tank. The work requires the sludge holding tank to be emptied for use during the work and this is currently ongoing.

The request is for a day to be determined in the next two (2) to three (3) weeks from June 9, 2014 and will be approximately one (1) day in duration with at least twenty-four (24) hours notice provided to the undersigned Provincial Officer. The day is dependent on a number of factors and is the responsibility of the Operating Authority to determine.

Environmental Compliance Approval #1655-7P8SPE issued on February 26, 2009 provides a condition for bypasses which includes a sampling provision. Condition 5 (2) states that the Owner shall collect at least one (1) grab sample of the bypass and have it analyzed for the parameters outlined in Condition 7 using the protocols in Condition 9. A grab sample is sufficient; however, it is recommended that a composite sample be taken, sampling over the entire duration of the work with a grab sample taken for E.coli. These samples are in addition to the regular weekly effluent samples required under Condition 9 of the ECA.

I am of the opinion, based on reasonable and probable grounds, that the maintenance to be completed is essential and necessary and will provide improvement to the overall treatment system once complete. Effluent quality may be affected during the work; however, a significant level of treatment will still be provided to incoming flows and disinfection will be maintained at all times.

Offence(s)

Suspected Violation(s)/Offence(s):

Act – Regulation – Section

Description:

Jen Bitten

Provincial Officer

Badge Number:

24/06/2014 (dd/mm/yyyy)

APPEAL/REVIEW INFORMATION

REQUEST FOR REVIEW

You may request that this order be reviewed by the Director. Your request must be made in writing (or orally with written confirmation) within seven days of service of this order and sent by mail or fax to the Director at the address below. In the written request or written confirmation you must,

- specify the portions of this order that you wish to be reviewed;
- include any submissions to be considered by the Director with respect to issuance of the order to you or any other person and within respect to the contents of the order;
- apply for a stay of this order, if necessary; and provide an address for service by one of the following means:
    1. Mail
    2. Fax

The Director may confirm, alter or revoke this order. If this order is revoked by the Director, you will be notified in writing. If this order is confirmed or amended by order of the Director, the Director's order will be served upon you. The Director's order will include instructions for requiring a hearing before the Environmental Review Tribunal.

DEEMED CONFIRMATION OF THIS ORDER

If you do not receive oral or written notice of the Director's decision within seven days of receipt of your request, this order is deemed to be confirmed by order of the Director and deemed to be served upon you.

You may require a hearing before the Environmental Review Tribunal if, within 15 days of service of the confirming order deemed to have been made by the Director, you serve written notice of your appeal on the Environmental Review Tribunal and the Director. Your notice must state the portions of the order for which a hearing is required and the grounds on which you intend to rely at the hearing. Except by leave of the Environmental Review Tribunal, you are not entitled to appeal a portion of the order or to rely on grounds of appeal that are not stated in the notice requiring the hearing. Unless stayed by the Environmental Review Tribunal, the order is effective from the date of service.

Written notice requiring a hearing must be served personally or by mail upon:

The Secretary
Environmental Review Tribunal
655 Bay Street, 15th Floor
Toronto, ON M5G 1E5

and

Director (Provincial Officer Orders)
Ministry of the Environment
1259 Gardiners Road, Unit 3
Kingston, ON K7P 3J6
Fax: (613) 540-6876

Where service is made by mail, it is deemed to be made on the fifth day after the date of mailing and the time for requiring a hearing is not extended by choosing service by mail.

Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal by:

Tel: (416) 314-4600 Fax: (416) 314-4506 www.ert.gov.on.ca

FOR YOUR INFORMATION

- Unless stayed by the Director of the Environmental Review Tribunal, this order is effective from the date of service. Non-compliance with the requirements of this order constitutes an offence.
- The requirements of this order are minimum requirements only and do not relieve you from complying with the following:
    - Any applicable federal legislation;
    - Any applicable provincial requirements that are not addressed in the order; and
    - Any applicable municipal law.
- The requirements of this order are severable. If any requirement of this order or the application of any requirement to any circumstances is held invalid, the application of such requirement to other circumstances and the remainder of the order are not affected.
- Further orders may be issued in accordance with the legislation as circumstances require.
- The procedures to request a review by the Director and other information provided above are intended as a guide. The legislation should be consulted for additional details and accurate reference.