

# APPENDIX



## MONITORING AND SCREENING CHECKLIST



## Appendix D-Monitoring and Screening Checklist General Information and Instructions

**General Information: The checklist is to be completed, and submitted with the Monitoring Report.**

**Instructions:** A complete checklist consists of:

- (a) a completed and signed checklist, including any additional pages of information which can be attached as needed to provide further details where indicated.
- (b) completed contact information for the Competent Environmental Practitioner (CEP)
- (c) self-declaration that CEP(s) meet(s) the qualifications as set out below and in Section 1.2 of the Technical Guidance Document.

**Definition of Groundwater CEP:**

For groundwater, the CEP must have expertise in hydrogeology and meet one of the following:

- (a) the person holds a licence, limited licence or temporary licence under the *Professional Engineers Act*; or
- (b) the person holds a certificate of registration under the *Professional Geoscientists Act, 2000* and is a practicing member, temporary, member or limited member of the Association of Professional Geoscientists of Ontario. O. Reg. 66/08, s. 2..

**Definition of Surface water CEP:**

A CEP for surface water assessments is a scientist, professional engineer or professional geoscientist as described in (a) and (b) above with demonstrated experience and post-secondary education, either a diploma or degree, in hydrology, aquatic ecology, limnology, aquatic biology, physical geography with specialization in surface water, and/or water resource management.

The type of scientific work that a CEP performs must be consistent with that person's education and experience. If an individual has appropriate training and credentials in both groundwater and surface water and is responsible for both areas of expertise, the CEP may then complete and validate both sections of the checklist.

<b>Monitoring Report and Site Information</b>	
<b>Waste Disposal Site (WDS) Name</b>	Oxford County Waste Management Facility
<b>Location (e.g. street address, lot, concession)</b>	384060 Salford Road, Salford, ON N0J 1W0
<b>GPS Location (taken within the property boundary at front gate/ front entry)</b>	NAD 83, Zone 17, N 4760856, E 515606
<b>Municipality</b>	Township of South-West Oxford
<b>Client and/or Site Owner</b>	County of Oxford
<b>Monitoring Period (Year)</b>	2019
This Monitoring Report is being submitted under the following:	
<b>Environmental Compliance Approval (ECA) Number (formerly "Certificate of Approval" (C of A)) :</b>	ECA (Waste) A070808, CofA (Sewage) 4504-74CKZ2
<b>Director's Order No.:</b>	
<b>Provincial Officer's Order No.:</b>	

<b>Other:</b>			
<b>Report Submission Frequency</b>	<input checked="" type="radio"/> <b>Annual</b> <input type="radio"/> <b>Other</b>		
<b>The site is: (Operation Status)</b>	<input checked="" type="radio"/> <b>Open</b> <input type="radio"/> <b>Inactive</b> <input type="radio"/> <b>Closed</b>		
<b>Is there an active waste transfer station at the site?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>		
<b>Does this WDS have a Closure Plan?</b>	<input checked="" type="radio"/> <b>Not yet submitted</b> <input type="radio"/> <b>Submitted and under review</b> <input type="radio"/> <b>Submitted and approved</b>		
<b>Total Approved Capacity</b>	2,356,200	Units	Tonnes
<b>Maximum Approved Fill Rate</b>		Units	
<b>Total Waste Received within Monitoring Period (Year)</b>	50,285.47	Units	Tonnes
<b>Total Waste Received within Monitoring Period (Year)</b> <i>Describe the methodology used to determine this quantity</i>	Weighed		
<b>Estimated Remaining Capacity</b>	2,652,306	Units	Cubic Metres
<b>Estimated Remaining Capacity</b> <i>Describe the methodology used to determine this quantity</i>	Aerial Photogrammetry		
<b>Estimated Remaining Capacity</b> <i>Date Last Determined</i>	January 2020		
<b>Non-Hazardous Approved Waste Types</b>	<input checked="" type="checkbox"/> Domestic <input checked="" type="checkbox"/> Industrial, Commercial & Institutional (IC&I) <input type="checkbox"/> Source Separated Organics (Green Bin) <input type="checkbox"/> Tires	<input checked="" type="checkbox"/> Contaminated Soil <input type="checkbox"/> Wood Waste <input type="checkbox"/> Blue Box Material <input type="checkbox"/> Processed Organics <input type="checkbox"/> Leaf and Yard Waste	<input type="checkbox"/> Food Processing/Preparation Operations Waste <input type="checkbox"/> Hauled Sewage Other: <input type="text" value="Asbestos"/>
<b>Subject Waste Approved Waste Classes: Hazardous &amp; Liquid Industrial</b> <i>(separate waste classes by comma)</i>			

<b>Year Site Opened</b> <i>(enter the Calendar Year <u>only</u>)</i>	<div style="border: 1px solid black; padding: 5px; width: 100%;">1986</div>	<b>Current ECA Issue Date</b>	11/07/2013
<b>Is your Site required to submit Financial Assurance?</b>		<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>	
<b>Describe how your WDS is designed.</b>		<input type="radio"/> Natural Attenuation only <input type="radio"/> Fully engineered Facility <input checked="" type="radio"/> Partially engineered Facility	
<b>Does your Site have an approved Contaminant Attenuation Zone?</b>		<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>	
<b>If closed, specify ECA, control or authorizing document closure date:</b>		Select Date	
<b>Has the nature of the operations at the site changed during this monitoring period?</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b>		
<b>If yes, provide details:</b>			

<p>Have any measurements been taken since the last reporting period that indicate landfill gas volumes have exceeded the MOE limits for subsurface or adjacent buildings? (i.e. exceeded the LEL for methane)</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>
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**Groundwater WDS Verification:**

Based on all available information about the site and site knowledge, it is my opinion that:

**Sampling and Monitoring Program Status:**

<p>1) The monitoring program continues to effectively characterize site conditions and any groundwater discharges from the site. All monitoring wells are confirmed to be in good condition and are secure:</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	
<p>2) All groundwater, leachate and landfill gas sampling and monitoring for the monitoring period being reported on was successfully completed as required by ECA or other relevant authorizing/control document(s):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>If no, list exceptions below or attach information.</p>

Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date


<b>3) a) Some or all groundwater, leachate and landfill gas sampling and monitoring requirements have been established or defined outside of a ministry ECA, authorizing, or control document.</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No <input type="radio"/> Not Applicable
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<b>b) If yes, the sampling and monitoring identified under 3(a) for the monitoring period being reported on was successfully completed in accordance with established protocols, frequencies, locations, and parameters developed as per the Technical Guidance Document:</b>	<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Not Applicable	If no, list exceptions below or attach additional information.
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Groundwater Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date

<p>4) <b>All field work for groundwater investigations was done in accordance with Standard Operating Procedures (SOP) as established/outlined per the Technical Guidance Document (including internal/external QA/QC requirements) (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):</b></p>	<p><input checked="" type="radio"/> <b>Yes</b></p> <p><input type="radio"/> <b>No</b></p>	<p>Field work for groundwater monitoring was completed in accordance with standard operating procedures. The field QA/QC program included blind duplicate field duplicates; however, travel spiked blanks were not part of the field QA/QC program.</p> <p>The laboratory QA/QC control program was extensive and included method blanks, duplicates, spiked blanks, matrix spikes, and surrogate recovery.</p>
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**Sampling and Monitoring Program Results/WDS Conditions and Assessment:**

<p>5) <b>The site has an adequate buffer, Contaminant Attenuation Zone (CAZ) and/or contingency plan in place. Design and operational measures, including the size and configuration of any CAZ, are adequate to prevent potential human health impacts and impairment of the environment.</b></p>	<p><input checked="" type="radio"/> <b>Yes</b></p> <p><input type="radio"/> <b>No</b></p>	
<p>6) <b>The site meets compliance and assessment criteria.</b></p>	<p><input type="radio"/> <b>Yes</b></p> <p><input checked="" type="radio"/> <b>No</b></p>	<p>Please see Sections 6.2.4, 6.2.5, 6.2.6, and 6.3 of the 2019 Operations and Monitoring Report.</p>
<p>7) <b>The site continues to perform as anticipated. There have been no unusual trends/ changes in measured leachate and groundwater levels or concentrations.</b></p>	<p><input checked="" type="radio"/> <b>Yes</b></p> <p><input type="radio"/> <b>No</b></p>	

<p>1) Is one or more of the following risk reduction practices in place at the site:</p> <p>(a) There is minimal reliance on natural attenuation of leachate due to the presence of an effective waste liner and active leachate collection/ treatment; or</p> <p>(b) There is a predictive monitoring program in-place (modeled indicator concentrations projected over time for key locations); or</p> <p>(c) The site meets the following two conditions (typically achieved after 15 years or longer of site operation):</p> <p><i>i.</i> The site has developed stable leachate mound(s) and stable leachate plume geometry/ concentrations; and</p> <p><i>ii.</i> Seasonal and annual water levels and water quality fluctuations are well understood.</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>Note which practice(s):</p>	<p><input type="checkbox"/> (a)</p> <p><input type="checkbox"/> (b)</p> <p><input checked="" type="checkbox"/> (c)</p>
<p>9) Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Applicable</p>	<p>Please see Section 6.2.6 of the 2019 Operations and Monitoring Report.</p>	

**Groundwater CEP Declaration:**

I am a licensed professional Engineer or a registered professional geoscientist in Ontario with expertise in hydrogeology, as defined in Appendix D under Instructions. Where additional expertise was needed to evaluate the site monitoring data, I have relied on individuals who I believe to be experts in the relevant discipline, who have co-signed the compliance monitoring report or monitoring program status report, and who have provided evidence to me of their credentials.

I have examined the applicable Environmental Compliance Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended), and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature and will be rectified for the next monitoring/reporting period. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:



## Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

No changes to the monitoring program are recommended

The following change(s) to the monitoring program is/are recommended:

Inter-Till Sand well 998 and Fractured Till well 03-7s, both located adjacent to the recently constructed Waste Management and Education Centre building, may have been compromised by construction activities and are recommended to be decommissioned and replaced.

No Changes to site design and operation are recommended

The following change(s) to the site design and operation is/are recommended:

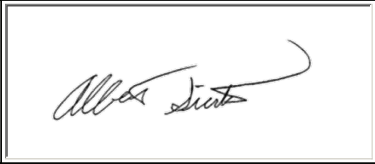
Name:

Albert Siertsema

Seal:

Add Image



<b>Signature:</b>		<b>Date:</b>	11-Feb-2020
<b>CEP Contact Information:</b>	Albert Siertsema		
<b>Company:</b>	WSP Canada Inc.		
<b>Address:</b>	1821 Provincial Road, Suite 100, Windsor, ON N8W 5V7		
<b>Telephone No.:</b>	519-383-0366	<b>Fax No. :</b>	
<b>E-mail Address:</b>	albert.siertsema@wsp.com		
<b>Co-signers for additional expertise provided:</b>			
<b>Signature:</b>		<b>Date:</b>	
<b>Signature:</b>		<b>Date:</b>	
<b>Surface Water WDS Verification:</b>			
<b>Provide the name of surface water body/bodies potentially receiving the WDS effluent and the approximate distance to the waterbody (including the nearest surface water body/bodies to the site):</b>			
<b>Name (s)</b>	The Site is located in the Thames River watershed, on a watershed boundary between two sub-basins. Surface water flows to a tributary of Reynold's Creek to the southwest and to Hooper Drain to the northwest.		

<b>Distance(s)</b>	Reynold's Creek tributary - originates on the Site south buffer lands Hooper Drain - crosses northeast corner of the Site, within a closed concrete pipe Thames River - 7,500 m northwest of Site
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**Based on all available information and site knowledge, it is my opinion that:**

**Sampling and Monitoring Program Status:**

<b>1) The current surface water monitoring program continues to effectively characterize the surface water conditions, and includes data that relates upstream/background and downstream receiving water conditions:</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>	If no, identify issues (Type Here):
<b>2) All surface water sampling for the monitoring period being reported was successfully completed in accordance with the ECA or relevant authorizing/control document(s) (if applicable):</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b> <input type="radio"/> <b>Not applicable</b>	If no, specify below or provide details in an attachment.

Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date

<b>3) a) Some or all surface water sampling and monitoring program requirements for the monitoring period have been established outside of a ministry ECA or authorizing/control document.</b>	<input type="radio"/> <b>Yes</b> <input checked="" type="radio"/> <b>No</b> <input type="radio"/> <b>Not Applicable</b>
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<b>b) If yes, all surface water sampling and monitoring identified under 3 (a) was successfully completed in accordance with the established program from the site, including sampling protocols, frequencies, locations and parameters) as developed per the Technical Guidance Document:</b>	<input type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b> <input checked="" type="radio"/> <b>Not Applicable</b>	If no, specify below or provide details in an attachment.
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Surface Water Sampling Location	Description/Explanation for change (change in name or location, additions, deletions)	Date

<p>4) All field work for surface water investigations was done in accordance with SOP, including internal/external QA/QC requirements, as established/outlined as per the Technical Guidance Document, MOE 2010, or as amended. (Note: A SOP can be from a published source, developed internally by the site owner's consultant, or adopted by the consultant from another organization):</p>	<p><input checked="" type="radio"/> Yes</p> <p><input type="radio"/> No</p>	<p>Field work for groundwater monitoring was completed in accordance with standard operating procedures. The field QA/QC program included blind duplicate field duplicates; however, travel spiked blanks were not part of the field QA/QC program.</p> <p>The laboratory QA/QC control program was extensive and included method blanks, duplicates, spiked blanks, matrix spikes, and surrogate recovery.</p>
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**Sampling and Monitoring Program Results/WDS Conditions and Assessment:**

<p>5) The receiving water body meets surface water-related compliance criteria and assessment criteria: i.e., there are no exceedances of criteria, based on MOE legislation, regulations, Water Management Policies, Guidelines and Provincial Water Quality Objectives and other assessment criteria (e.g., CWQGs, APVs), as noted in Table A or Table B in the Technical Guidance Document (Section 4.6):</p>	<p><input type="radio"/> Yes</p> <p><input checked="" type="radio"/> No</p>
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If no, list parameters that exceed criteria outlined above and the amount/percentage of the exceedance as per the table on the following page or provide details in an attachment:

Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance or Assessment Criteria or Background Exceeded
e.g. Nickel	e.g. ECA limit, PWQO, background	e.g. X% above PWQO
Phosphorus	PWQO/Background	(see attached for details)
Iron	PWQO/Background	(see attached for details)
Un-ionized Ammonia	PWQO/Background	(see attached for details)
Phenols	PWQO/Background	(see attached for details)
<b>6) In my opinion, any exceedances listed in Question 5 are the result of non-WDS related influences (such as background, road salting, sampling site conditions)?</b>	<input checked="" type="radio"/> <b>Yes</b> <input type="radio"/> <b>No</b>	Exceedances related to background and sampling site conditions.

<p>7) <b>All monitoring program surface water parameter concentrations fall within a stable or decreasing trend. The site is not characterized by historical ranges of concentrations above assessment and compliance criteria.</b></p>	<p><input checked="" type="radio"/> <b>Yes</b></p> <p><input type="radio"/> <b>No</b></p>	
<p>8) <b>For the monitoring program parameters, does the water quality in the groundwater zones adjacent to surface water receivers exceed assessment or compliance criteria (e.g., PWQOs, CWQGs, or toxicity values for aquatic biota (APVs)):</b></p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input type="radio"/> Not Known</p> <p><input checked="" type="radio"/> <b>Not Applicable</b></p>	
<p>9) <b>Have trigger values for contingency plans or site remedial actions been exceeded (where they exist):</b></p>	<p><input type="radio"/> Yes</p> <p><input type="radio"/> No</p> <p><input checked="" type="radio"/> <b>Not Applicable</b></p>	

## Surface Water CEP Declaration:

I, the undersigned hereby declare that I am a Competent Environmental Practitioner as defined in Appendix D under Instructions, holding the necessary level of experience and education to design surface water monitoring and sampling programs, conduct appropriate surface water investigations and interpret the related data as it pertains to the site for this monitoring period.


I have examined the applicable Environmental Compliance Approval and any other environmental authorizing or control documents that apply to the site. I have read and followed the Monitoring and Reporting for Waste Disposal Sites Groundwater and Surface Water Technical Guidance Document (MOE, 2010, or as amended) and associated monitoring and sampling guidance documents, as amended from time to time. I have reviewed all of the data collected for the above-referenced site for the monitoring period(s) identified in this checklist. Except as otherwise agreed with the ministry for certain parameters, all of the analytical work has been undertaken by a laboratory which is accredited for the parameters analysed to ISO/IEC 17025:2005 (E)- General requirements for the competence of testing and calibration laboratories, or as amended from time to time by the ministry.

If any exceptions or potential concerns have been noted in the questions in the checklist attached to this declaration, it is my opinion that these exceptions and concerns are minor in nature or will be rectified for future monitoring events. Where this is not the case, the circumstances concerning the exception or potential concern and my client's proposed action have been documented in writing to the Ministry of the Environment District Manager in a letter from me dated:

## Recommendations:

Based on my technical review of the monitoring results for the waste disposal site:

<p><input checked="" type="radio"/> No Changes to the monitoring program are recommended</p> <p><input type="radio"/> The following change(s) to the monitoring program is/are recommended:</p>	
<p><input checked="" type="radio"/> No changes to the site design and operation are recommended</p> <p><input type="radio"/> The following change(s) to the site design and operation is/are recommended:</p>	

<b>CEP Signature</b>		
<b>Relevant Discipline</b>	Geological Engineer	
<b>Date:</b>	11-Feb-2020	
<b>CEP Contact Information:</b>	Albert Siertsema	
<b>Company:</b>	WSP Canada Inc.	
<b>Address:</b>	1821 Provincial Road, Suite 100, Windsor, ON N8W 5V7	
<b>Telephone No.:</b>	519-383-0366	
<b>Fax No. :</b>		
<b>E-mail Address:</b>	albert.siertsema@wsp.com	
<b>Save As</b>		<b>Print Form</b>



## Appendix I – Additional Information

### Surface Water WDS Verification

5)

<b>Parameter</b>	<b>Compliance or Assessment Criteria or Background</b>	<b>Amount by which Compliance or Assessment Criteria or Background Exceeded</b>
Phosphorous at 979 (downstream) – March 15, 2019	PWQO/background	7100% above PWQO / 61% above background
Phosphorous at 979 (downstream) – May 15, 2019	PWQO/background	577% above PWQO / 86% above background
Phosphorous at 979 (downstream) – August 28, 2019	PWQO/background	5133% above PWQO / 314% above background
Phosphorous at 979 (downstream) – October 10, 2019	PWQO/background	510% above PWQO / less than background
Phosphorous at 974 (downstream) – March 15, 2019	PWQO/background	390% above PWQO / less than background
Phosphorous at 974 (downstream) – May 15, 2019	PWQO/background	233% above PWQO / less than background
Phosphorous at 974 (downstream) – August 28, 2019	PWQO/background	3133% above PWQO / 156% above background
Phosphorous at 974 (downstream) – October 10, 2019	PWQO/background	393% above PWQO / less than background
Phosphorous at 971 (Sedimentation Pond A) – March 15, 2019	PWQO/background	1827% above PWQO / less than background
Phosphorous at 971 (Sedimentation Pond A) – May 15, 2019	PWQO/background	243% above PWQO / less than background
Phosphorous at 971 (Sedimentation Pond A) – August 28, 2019	PWQO/background	330% above PWQO / less than background
Phosphorous at 971 (Sedimentation Pond A) – October 10, 2019	PWQO/background	407% above PWQO / less than background
Phosphorous at 977 (Sedimentation Pond B) – March 15, 2019	PWQO/background	277% above PWQO / less than background
Phosphorous at 977 (Sedimentation Pond B) – April 15, 2019	PWQO	497% above PWQO
Phosphorous at 977 (Sedimentation Pond B) – May 15, 2019	PWQO/background	267% above PWQO / 1% above background
Phosphorous at 977 (Sedimentation Pond B) – August 28, 2019	PWQO/background	218% above PWQO / less than background
Phosphorous at 977 (Sedimentation Pond B) – October 10, 2019	PWQO/ background	136% above PWQO / less than background
Iron at 979 (downstream) – March 15, 2019	PWQO/background	2813% above PWQO / 37% above background
Iron at 979 (downstream) – May 15, 2019	PWQO/background	347% above PWQO / 230% above background
Iron at 979 (downstream) – August 28, 2019	PWQO/background	7333% above PWQO / 918% above background
Iron at 979 (downstream) – October 10, 2019	PWQO/background	700% above PWQO / less than background
Iron at 974 (downstream) – March 15, 2019	PWQO/background	970% above PWQO / less than background

<b>Parameter</b>	<b>Compliance or Assessment Criteria or Background</b>	<b>Amount by which Compliance or Assessment Criteria or Background Exceeded</b>
Iron at 974 (downstream) – May 15, 2019	PWQO/background	69% above PWQO / 25% above background
Iron at 974 (downstream) – August 28, 2019	PWQO/background	257% above PWQO / less than background
Iron at 974 (downstream) – October 10, 2019	PWQO/background	387% above PWQO / less than background
Iron at 971 (Sedimentation Pond A) – March 15, 2019	PWQO/background	303% above PWQO / less than background
Iron at 971 (Sedimentation Pond A) – May 15, 2019	PWQO/background	205% above PWQO / 126% above background
Iron at 971 (Sedimentation Pond A) – August 28, 2019	PWQO/background	213% above PWQO / less than background
Iron at 971 (Sedimentation Pond A) – October 10, 2019	PWQO/background	137% above PWQO / less than background
Iron at 977 (Sedimentation Pond B) – March 15, 2019	PWQO/background	407% above PWQO / less than background
Iron at 977 (Sedimentation Pond B) – April 15, 2019	PWQO	887% above PWQO
Iron at 977 (Sedimentation Pond B) – May 15, 2019	PWQO/background	703% above PWQO / 494% above background
Iron at 977 (Sedimentation Pond B) – August 28, 2019	PWQO/background	307% above PWQO / less than background
Iron at 977 (Sedimentation Pond B) – October 10, 2019	PWQO/ background	76% above PWQO / less than background
Phenols at 979 (downstream) – May 15, 2019	PWQO/background	180% above PWQO / 56% above background
Phenols at 979 (downstream) – August 28, 2019	PWQO/background	70% above PWQO / 21% above background
Phenols at 979 (downstream) – October 10, 2019	PWQO/background	430% above PWQO / less than background
Phenols at 974 (downstream) – March 15, 2019	PWQO/background	20% above PWQO / less than background
Phenols at 974 (downstream) – May 15, 2019	PWQO/background	370% above PWQO / 161% above background
Phenols at 974 (downstream) – October 10, 2019	PWQO/background	690% above PWQO / 27% above background
Phenols at 971 (Sedimentation Pond A) – March 15, 2019	PWQO/background	20% above PWQO / less than background
Phenols at 971 (Sedimentation Pond A) – May 15, 2019	PWQO/background	180% above PWQO / 56% above background
Phenols at 971 (Sedimentation Pond A) – October 10, 2019	PWQO/background	160% above PWQO / less than background
Phenols at 977 (Sedimentation Pond B) – March 15, 2019	PWQO/background	160% above PWQO / less than background
Phenols at 977 (Sedimentation Pond B) – April 15, 2019	PWQO	450% above PWQO
Phenols at 977 (Sedimentation Pond B) – May 15, 2019	PWQO/background	30% above PWQO / less than background
Phenols at 977 (Sedimentation Pond B) – October 10, 2019	PWQO/ background	860% above PWQO / 55% above background

Parameter	Compliance or Assessment Criteria or Background	Amount by which Compliance or Assessment Criteria or Background Exceeded
Un-ionized ammonia at 977 (Sedimentation Pond B) – March 15, 2019	PWQO/background	778% above PWQO / 6903% above background
Un-ionized ammonia at 977 (Sedimentation Pond B) – April 15, 2019	PWQO	230% above PWQO
Un-ionized ammonia at 977 (Sedimentation Pond B) – October 10, 2019	PWQO/background	31% above PWQO / 227% above background