

ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT
BEING CHAPTER E-12 R.S.A. 2000 (the "Act" or "EPEA")
ENFORCEMENT ORDER NO. EPEA-EO-2020/02-PR

Right Choice Camps & Catering Ltd. ("RCCC")
8848 – 60 Avenue
Edmonton, Alberta T6E 6A6

and

Sustainable Water Solutions Inc. ("SWS")
200, 9803 – 101 Avenue
Grande Prairie, Alberta T8V 0X6

(collectively, RCCC and SWS will be referred to as "the Parties")

WHEREAS RCCC is the owner of the "West Kakwa Camp", located at SW-30-63-5-W6M, in the M.D. of Greenview No. 16, which is a field camp providing temporary housing for workers in the Kakwa area south of Grande Prairie, and includes a wastewater treatment plant ("the Facility");

WHEREAS SWS is the operator of the Facility at the West Kakwa Camp;

WHEREAS the West Kakwa Camp has a maximum capacity of 216 people;

WHEREAS section 61 of *EPEA* states that no person shall commence or continue an activity that is designated by the regulations as requiring an approval unless the person holds the required approval;

WHEREAS under the *Activities Designation Regulation* (A.R. 276/2003, as amended), activities included within Schedule 1 of the *Regulation* require an approval;

WHEREAS Schedule 1, Division 2, Part 7 (Wastewater), para. (g)(ii) of the *Regulation* states:

- (g) the construction, operation or reclamation of a wastewater system that uses a wastewater treatment plant other than a wastewater lagoon, and
 - (ii) that serves an industrial development or privately owned development and
 - (A) discharges treated wastewater off the site of the development, or
 - (B) is designed to treat more than 25 cubic metres of wastewater per day

WHEREAS the Facility is a wastewater treatment plant designed to treat more than 25 cubic metres of wastewater per day at an industrial development, and has done so on numerous occasions in 2019 for which data is available:

Month	Exceedances (dates in each month in cubic metres of wastewater being treated)
January	18 in total: Jan 11(26.4), 12(26.2), 13(28.6), 14(25.4), 15(37.7), 16(36.0), 17(33.8), 18(33.4), 19(35.5), 20(34.0), 21 (33.3), 25(31.0), 26(33.46), 27(32.18), 28(33.14), 29(34.76), 30(31.45), and 31(36.34).
February	27 in total: Feb 1(25.4), Feb 2(37.7), Feb 3(36), Feb 4(33.8), Feb 5(33.4), Feb 6(35.5), Feb 7(34.0), Feb 8(33.3), Feb 10(26.4), Feb 11(26.2), Feb 12(28.6), Feb 13(25.4), Feb 14(37.7), Feb 15(36), Feb 16(33.8), Feb 17(33.4), Feb 18(35.5), Feb 19(34.0), Feb 20(33.3), Feb 21(26.2), Feb 22(28.6), Feb 23(25.4), Feb 24(37.7), Feb 25(36.0), Feb 26(33.8), Feb 27(33.4), and Feb 28(35.5).
March	19 in total: Mar 1(36.0), Mar 2(35.0), Mar 3(38.0), Mar 4(33.0), Mar 5(31.0), Mar 6(36.0), Mar 7(36.0), Mar 8(37.0), Mar 9(31.0), Mar 10(34.0), Mar 11(26.0), Mar 12(31.0), Mar 13(31.0), Mar 14(37.0), Mar 15(31.0), Mar 16(31.0), Mar 28(44.0), Mar 30(27.0), and Mar 31(29.0).
April	21 in total: Apr 1(26.0), Apr 2(30.0), Apr 5(29.0), Apr 6(26.0), Apr 7(28.0), Apr 8(30.0), Apr 9(28.0), Apr 10(34.0), Apr 11(37.0), Apr 12(32.0), Apr 13(33.0), Apr 14(36.0), Apr 15(35.0), Apr 16(32.0), Apr 17(33.0), Apr 18(35.0), Apr 19(37.0), Apr 20(33.0), Apr 21(34.0), Apr 22(32.0), and Apr 28(26.0).
May	8 in total: May 3(28.0), May 10(31.0), May 15(28.0), May 16(26.0), May 17(31.0), May 18(30.0), May 19(29.0), and May 23(32.0).
June	22 in total: Jun 3(41.0), Jun 7(30.0), Jun 9(31.0), Jun 10(32.0), Jun 11(32.0), Jun 12(31.1), Jun 13(37.5), Jun 14(33.8), Jun 15(33.6), Jun 16(35.0), Jun 17(34.0), Jun 18(33.0), Jun 20(28.0), Jun 21(28.0), Jun 22(29.0), Jun 24(29.0), Jun 25(28.0), Jun 26(31.0), Jun 27(32.0), Jun 28(37.0), Jun 29(34.0), and Jun 30(34.0).

- bold-faced indicates those dates in which the 25 cubic metre limit was exceeded by 25% or more

WHEREAS the Facility requires an approval pursuant to the Act and the *Activities Designation Regulation*;

WHEREAS Alberta Environment & Parks (AEP) records indicate that no *EPEA* approval has been issued to any person for the construction, operation and reclamation of the Facility;

WHEREAS on Sept. 26, 2019, RCCC submitted an application to AEP for an *EPEA* approval for the Facility, and the application is currently still under review by AEP;

WHEREAS the Parties require interim authorization to continue operating the Facility under *EPEA* with appropriate operating conditions until AEP completes the review of the approval application and makes a decision regarding the issuance of an approval;

WHEREAS Jack McNaughton, Compliance Manager, Peace Region, has been appointed a Director for the purposes of issuing and amending enforcement orders under the Act (the "Director");

WHEREAS the Director is of the opinion that RCCC and SWS have contravened Section 61 of the Act and must take measures to comply with the Act and regulations;

THEREFORE, I, Jack McNaughton, the Director, pursuant to Section 210(1)(e) of the Act, DO HEREBY ORDER THE PARTIES SHALL:

1. Operate the Facility in accordance with all of the terms and conditions in the attached Schedule 1 to this Order.
2. This Order expires September 1, 2020.

DATED at the City of Peace River, in the Province of Alberta, this 10 day of March, 2020.



Jack McNaughton
Compliance Manager
Peace Region

Section 91 of the Act may provide a right of appeal against this decision to the Alberta Environmental Appeals Board. There may be a strict time limit for filing such an appeal. A copy of section 91 is enclosed. For further information, please contact:

**The Board Secretary
Environmental Appeals Board
No. 306 Peace Hills Trust Tower
10011 – 109 Street NW
Edmonton, AB T5J 3S8
Telephone: (780) 427-6207
Fax: (780) 427-4693
Website: www.eab.gov.ab.ca**

Notwithstanding the above requirements, the Parties shall obtain all other necessary approvals in complying with this order.

Take notice that this enforcement order is a remedial tool only, and in no way precludes any enforcement proceedings being taken regarding this matter under the Act or any other legislation.

Schedule 1 – Interim Operating Conditions: Duvernay Wastewater Treatment Facility

Part 1: Definitions

1. All definitions from the Act and the regulations apply except where expressly defined below.
2. In this Schedule:
 - (a) "Act" means the *Environmental Protection and Enhancement Act*, R.S.A. 2000, c.E-12, as amended;
 - (b) "arithmetic mean" means the sum of all the sample analysis results divided by the total number of samples per reporting period;
 - (c) "at-grade soil dispersal system" means where the final treatment and dispersal is through a designed distribution system laid on top of land;
 - (d) "BOD₅" means the Biochemical Oxygen Demand in milligrams per litre measured at 20°C over a 5 day period;
 - (e) "CBOD" means the carbonaceous BOD₅ in milligrams per litre which is measured after the nitrogenous demand has been inhibited with an inhibitory chemical;
 - (f) "chemical" means any substance that is added or used as part of the treatment process;
 - (g) "composite sample" means
 - (i) a composite of samples of the stream collected over a 24 hour period, which is representative of the stream sampled, collected every 15 minutes in a quantity proportional to the flow rate of the stream,
 - OR
 - (ii) a refrigerated (approximately 4°C) sample consisting of not less than twelve portions of equal volume which are representative of the stream sampled, collected over a 24 hour period, at a rate proportional to the flow rate of the stream sampled,
 - OR
 - (iii) a refrigerated (approximately 4°C) sample consisting of not less than twenty-four portions of equal volume which are representative of the stream sampled, collected at time intervals proportional to the flow rate of the stream sampled during each time interval, with a minimum of one sample collected every hour over a 24 hour period,
 - OR

- (iv) a refrigerated (approximately 4°C) sample consisting of not less than twenty-four portions of equal volume collected sequentially at regular time intervals over a 24 hour period;
- (h) "continuous monitoring" means sampling or flow measurement through equipment that creates an uninterrupted output of the analysis or flow measurement;
- (i) "day" means calendar day;
- (j) "Director" means an employee of the Government of Alberta designated as a Director under the Act;
- (k) "grab sample" means an individual sample collected in less than 30 minutes and which is representative of the substance sampled;
- (l) "ISO 17025" means the international standard, developed and published by International Organization for Standardization (ISO), specifying management and technical requirements for laboratories;
- (m) "regulations" means the regulations issued pursuant to the Act and as amended;
- (n) "TSS" means the total suspended solids or non-filterable residue (NFR) measured in milligrams per litre;
- (o) "wastewater treatment plant" means the physical components of the wastewater system that are used to treat wastewater including components associated with the management of any wastes generated during treatment and includes the land located within the Legal Subdivision SW of Section 30, Township 63, Range 5, West of the 6th Meridian, that is being or has been used or held for or in connection with the West Kakwa Lodge Camp wastewater plant;
- (p) "week" means any consecutive 7-day period; and
- (q) "year" means calendar year.

Part 2: Record Keeping

1. The Parties shall record and retain all the following information in respect of any sampling conducted or analyses performed for a minimum of three years:
 - (a) the place, date and time of sampling;
 - (b) the dates the analyses were performed;
 - (c) the analytical techniques, methods or procedures used in the analyses;
 - (d) the names of the persons who collected and analyzed each sample; and

- (e) the results of the analyses.

Part 3: Sampling and Laboratory Analysis

1. Collection, preservation, storage, handling and analysis of samples, and reporting shall be conducted in accordance with the following unless otherwise specified in writing by the Director:
 - (a) the *Standard Methods for the Examination of Water and Wastewater* published jointly by the American Public Health Association, American Water Works Association, and the Water Environment Federation, as amended; and/or
 - (b) the *Methods Manual for Chemical Analysis of Water and Wastes*, Alberta Environmental Centre, Vegreville, Alberta, 1996, AECV96-M1, as amended.
2. The Parties shall analyze all samples that are required to be obtained under this Order in a laboratory accredited pursuant to ISO 17025, as amended, for the specific parameter(s) to be analyzed, unless otherwise authorized in writing by the Director.

Part 4: Operational Requirements – General

1. The Parties shall not release any substances from the wastewater system to the surrounding watershed except as authorized under this Order.
2. The Parties shall ensure the operation of the Facility is performed by, or under the direction of a person who holds a valid wastewater treatment certificate of qualification at a minimum of Level II or higher.
3. The Parties shall only dispose of sludge or waste streams to an approved wastewater system, or as otherwise authorized in writing by the Director.

Part 5: At-Grade Soil Dispersal System

1. The Parties shall construct and operate the at-grade soil dispersal system.
2. The Parties shall inspect the condition of the at-grade soil dispersal system once per calendar month with a minimum of 25 days between each inspection.
3. The inspection of the at-grade soil dispersal system in Clause 2 shall include:
 - (a) ponding around the at-grade soil dispersal system;
 - (b) overall condition of the at-grade dispersal system; and
 - (c) the overall health of the vegetation, when visible.

4. If ponding of the at-grade soil dispersal field is discovered, the Parties shall:
 - (a) immediately suspend discharging any treated wastewater until the ponding has been resolved;
 - (b) investigate the cause of the ponding to prevent future issues; and
 - (c) dispose of the treated wastewater at a wastewater treatment facility which holds a current approval or registration under EPEA.
5. The Parties shall ensure the treated wastewater effluent quality for the at-grade soil dispersal system complies with the limits in TABLE 1.

Part 6: Operational Limits – Wastewater

1. Treated wastewater from the wastewater treatment plant shall be released as follows:
 - (a) continuous discharge to the at-grade soil dispersal system; or
 - (b) at a wastewater treatment facility which holds a current approval or registration under the Act; or
 - (c) as otherwise authorized in writing by the Director.
2. The Parties shall ensure the treated wastewater discharge complies with the limits specified in TABLE 1.

Part 7: Monitoring and Reporting - Wastewater

1. The Parties shall monitor the wastewater system as required in TABLE 1.
2. The Parties shall monitor all unauthorized releases as required in TABLE 2.

TABLE 1: Treated Effluent Quality Requirements and Limits

Parameter	Frequency (Minimum)	Sample Type	Sampling Location	Limit
TREATED WASTEWATER				
Volume	Continuous, recorded daily	Calculated	Treated wastewater being discharged to the at-grade dispersal system	
CBOD	Three days a week	Composite	Prior to discharge	≤ 25 mg/L monthly arithmetic mean of daily samples taken three days per week in a calendar month
TSS	Three days a week	Composite	Prior to discharge	≤ 25 mg/L monthly arithmetic mean of daily samples taken three days per week in a calendar month
Total Coliform Counts	Once a month	Grab	Prior to discharge	<1000/100 mL
Faecal Coliform Counts				<200/100 mL
Electrical Conductivity	Once a month	Grab	Prior to discharge	< 2.5 dS/m, annual arithmetic mean of monthly samples
Sodium Absorption Ratio	Once a month		Prior to discharge	< 9, annual arithmetic mean on monthly samples
pH	Once a month		Prior to discharge	6.5 to 8.5, monthly samples
Sludge Volume	Total Volume	Estimated	Amount of sludge being trucked to an approved waste facility	

TABLE 2: Unauthorized Release Monitoring Requirements

UNAUTHORIZED RELEASES			
Release Volume	Total Volume	Estimated	Wastewater bypassing the wastewater treatment plant, accidental spills or overflows
			Wastewater bypassing the lift station(s), accidental spills or overflows
			Wastewater bypasses, accidental spills or overflows from the wastewater collection system
CBOD	During the unauthorized discharge	Grab	At the release point
TSS			

3. The Parties shall compile a Monthly Wastewater Report which includes, at a minimum, the following information:
 - (a) the results of the monitoring requirements of TABLES 1 & 2;
 - (b) the name and daily/weekly quantity of any chemical added to the wastewater in the wastewater treatment process;
 - (c) the name of the supervising operator responsible for the operation of the wastewater system; and
 - (d) a summary of any operational problems.

4. The Parties shall submit the Monthly Wastewater Report to the Director on or before the 15th of the month following the month in which the information on which the report is based was collected.