



APPROVAL

PROVINCE OF ALBERTA

ENVIRONMENTAL PROTECTION AND ENHANCEMENT ACT **R.S.A. 2000, c.E-12, as amended.**

APPROVAL NO.: 347704-00-00

APPLICATION NO.: 001-347704

EFFECTIVE DATE: June 6, 2014

EXPIRY DATE: June 1, 2024

APPROVAL HOLDER: One Environmental Inc.

ACTIVITY: Construction, operation and reclamation of the

Rocky View County Wagon Wheel Waste Management Facility

is subject to the attached terms and conditions.

Designated Director under the Act:  Dave Gower, M.Sc.

Date Signed: June 6, 2014

TERMS AND CONDITIONS ATTACHED TO APPROVAL

PART 1: DEFINITIONS

SECTION 1.1: DEFINITIONS

- 1.1.1 All definitions from the Act and the regulations apply except where expressly defined in this approval.
- 1.1.2 In all PARTS of this approval:
- (a) "Act" means the *Environmental Protection and Enhancement Act*, R.S.A. 2000, c.E-12, as amended;
 - (b) "air effluent stream" means any substance in a gaseous medium released by or from a facility;
 - (c) "application" means the written submissions from the approval holder to the Director in respect of application number 001-347704 and any subsequent applications where amendments are issued for this approval;
 - (d) "container" means any portable device in which a substance is kept, including but not limited to drums, barrels and pails which have a capacity greater than 18 litres but less than 210 litres;
 - (e) "decommissioning" means the dismantling and decontamination of a facility undertaken subsequent to the termination or abandonment of any activity or any part of any activity regulated under the Act;
 - (f) "decontamination" means the treatment or removal of substances from the facility and affected lands;
 - (g) "Director" means an employee of the Government of Alberta designated as a Director under the Act;
 - (h) "dismantling" means the removal of buildings, structures, process and pollution abatement equipment, vessels, storage facilities, material handling facilities, railways, roadways, pipelines and any other installations that are being or have been used or held for or in connection with the facility;
 - (i) "facility" means all buildings, structures, process and pollution abatement equipment, vessels, storage facilities, material handling facilities, roadways, railways, pipelines and other installations, and includes the land, located on 261131 Wagon Wheel Way, Rocky View County, Lot 4, Block 7, Plan 0810343, NE ¼ SEC 10, TWP 26, RGE 29 W4M, that is being or has been used or held for or in connection with the Rocky View County Wagon Wheel Waste Management Facility;

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- (j) "facility developed area" means the areas of the facility used for the storage, treatment, processing, transport, or handling of raw material, intermediate product, by-product, finished product, process chemicals, or waste material;
- (k) "ISO/IEC 17025" means the international standard, developed and published by International Organization for Standardization (ISO), specifying management and technical requirements for laboratories;
- (l) "incompatible waste" means waste or recyclable materials which could cause dangerous reactions from direct contact with one another;
- (m) "industrial and commercial slurries" means slurries from hydrovac daylighting operations, gasoline station oil/water separator disposal, spill cleanup, tank bottom cleaning, and other various operations that generate liquid/solid wastes;
- (n) "industrial runoff" means precipitation that falls on or traverses the facility developed area;
- (o) "industrial runoff control system" means the parts of the facility that collect, store or treat industrial runoff from the facility;
- (p) "industrial wastewater" means the composite of liquid wastes and water-carried wastes, any portion of which results from any industrial process carried on at the facility;
- (q) "industrial wastewater control system" means the parts of the facility that collect, store or treat industrial wastewater;
- (r) "local environmental authority" means the Department of Environment and Sustainable Resource Development, in the Province of Alberta, or the agency that has the equivalent responsibilities for any jurisdiction outside the Province;
- (s) "month" means calendar month;
- (t) "regulations" means the regulations enacted pursuant to the Act, as amended;
- (u) "soil" means mineral or organic earthen materials that can, have, or are being altered by weathering, biological processes, or human activity;
- (v) "tank" means a stationary device, designed to contain an accumulation of a substance, which is constructed primarily of non-earthen materials that provide structural support including wood, concrete, steel, and plastic;

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- (w) "TDGA" means *Transportation of Dangerous Goods Act*, 1992, as amended;
- (x) "topsoil" means the uppermost layer of soil and consists of:
 - (i) the A-horizons and all organic horizons as defined in *The Canadian System of Soil Classification* (Third Edition), Agriculture and Agri-Food Canada, Publication 1646, 1998, as amended, and
 - (ii) the soil ordinarily moved during tillage;
- (y) "upper subsoil" means the layer of soil directly below the topsoil layer that consists of the B-horizons as defined in *The Canadian System of Soil Classification*, (Third Edition), Agriculture and Agri-Food Canada, Publication 1646, 1998, as amended;
- (z) "waste storage area(s)" means the area(s) designated for storage of waste as described in the application;
- (aa) "week" means any consecutive 7-day period; and
- (bb) "year" means calendar year, unless otherwise specified.

PART 2: GENERAL

SECTION 2.1: REPORTING

- 2.1.1 The approval holder shall immediately report to the Director by telephone any contravention of the terms and conditions of this approval at 1-780-422-4505.
- 2.1.2 The approval holder shall submit a written report to the Director within 7 days of the reporting pursuant to 2.1.1.
- 2.1.3 The approval holder shall immediately notify the Director in writing if any of the following events occurs:
 - (a) the approval holder is served with a petition into bankruptcy;
 - (b) the approval holder files an assignment in bankruptcy or Notice of Intent to make a proposal;
 - (c) a receiver or receiver-manager is appointed;
 - (d) an application for protection from creditors is filed for the benefit of the approval holder under any creditor protection legislation; or
 - (e) any of the assets which are the subject matter of this approval are seized for any reason.

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- 2.1.4 If the approval holder monitors for any substances or parameters which are the subject of operational limits as set out in this approval more frequently than is required and uses procedures authorized in this approval, then the approval holder shall provide the results of such monitoring as an addendum to the reports required by this approval.
- 2.1.5 The approval holder shall submit all annual reports required by this approval to be compiled or submitted to the Director on or before March 31 of the year following the year in which the information was collected, unless otherwise specified in this approval.

SECTION 2.2: RECORD KEEPING

2.2.1 The approval holder shall:

- (a) record; and
- (b) retain

all the following information in respect of any sampling conducted or analyses performed in accordance with this approval for a minimum of ten years, unless otherwise authorized in writing by the Director:

- (i) the place, date and time of sampling,
- (ii) the dates the analyses were performed,
- (iii) the analytical techniques, methods or procedures used in the analyses,
- (iv) the names of the persons who collected and analysed each sample, and
- (v) the results of the analyses.

SECTION 2.3: ANALYTICAL REQUIREMENTS

2.3.1 With respect to any sample required to be taken pursuant to this approval, the approval holder shall ensure that:

- (a) collection;
- (b) preservation;
- (c) storage;
- (d) handling; and

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(e) analysis

shall be conducted in accordance with the following unless otherwise authorized in writing by the Director:

- (i) for industrial wastewater, industrial runoff and groundwater:**
 - (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, 1998, as amended;**
- (ii) for waste:**
 - (A) the *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods*, USEPA, SW-846, September 1986, as amended,**
 - (B) the *Methods Manual for Chemical Analysis of Water and Wastes*, Alberta Environmental Centre, Vegreville, Alberta, 1996, AECV96-M1 as amended,**
 - (C) the *Toxicity Characteristic Leaching Procedure (TCLP)* USEPA Regulation 40 CFR261, Appendix II, Method No. 1311, as amended, or**
 - (D) the *Standard Methods for the Examination of Water and Wastewater*, American Public Health Association, American Water Works Association, and the Water Environment Federation, 2010, as amended;**
- (iii) for soil:**
 - (A) the *Soil Monitoring Directive*, Alberta Environment, May 2009, as amended,**
 - (B) the *Soil Quality Criteria Relative to Disturbance and Reclamation*, Alberta Agriculture, March 1987, as amended, and**
 - (C) the *Directive for Monitoring the Impact of Sulphur Dust on Soils*, Alberta Environment and Water, December 2011, as amended.**

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- 2.3.2 The approval holder shall analyse all samples that are required to be obtained by this approval in a laboratory accredited pursuant to ISO/IEC 17025, as amended, for the specific parameter(s) to be analysed, unless otherwise authorized in writing by the Director.
- 2.3.3 The term sample used in 2.3.2 does not include samples directed to continuous monitoring equipment, unless specifically required in writing by the Director.
- 2.3.4 The approval holder shall comply with the terms and conditions of any written authorization issued by the Director under 2.3.2.

SECTION 2.4: OTHER

- 2.4.1 The terms and conditions of this approval are severable. If any term or condition of this approval or the application of any term or condition is held invalid, the application of such term or condition to other circumstances and the remainder of this approval shall not be affected thereby.
- 2.4.2 All tanks shall conform to the *Guidelines for Secondary Containment for Above Ground Storage Tanks*, Alberta Environmental Protection, 1997, as amended, unless otherwise authorized in writing by the Director.

PART 3: CONSTRUCTION

SECTION 3.1: GENERAL

- 3.1.1 If construction of the Rocky View County Wagon Wheel Waste Management Facility as described in application 001-347704 has not commenced by March 1, 2015, the approval holder shall apply for an amendment to this approval unless otherwise authorized in writing by the Director.
- 3.1.2 The approval holder shall construct Rocky View County Waste Management Facility as described in the application and shall include, at a minimum, all of the following:
- (a) an enclosed concrete stabilization pad, including the following:
 - (i) a dual leachate collection system as per drawing number A301, and
 - (ii) a leak detection system;
 - (b) a truck load/unload concrete containment pad with a 30 mil HDPE liner underlain;
 - (c) bentonite clay wastewater filtration unit; and
 - (d) enclosed wastewater storage tank(s).

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- 3.1.3 The approval holder shall notify the Director in writing at least 14 days before commencing operations of the facility unless otherwise authorized in writing by the Director.

SECTION 3.2: AIR

Not used at this time.

SECTION 3.3: INDUSTRIAL WASTEWATER

- 3.3.1 The approval holder shall construct the industrial wastewater control system according to the application and shall include, at a minimum, all of the following:
- (a) a bentonite clay wastewater filtration unit; and
 - (b) enclosed wastewater storage tank(s).
- 3.3.2 In addition to 3.3.1, the approval holder shall equip all tanks in the waste storage area, at a minimum, with all of the following:
- (a) sensors for detecting the level in each tank;
 - (b) high level alarms that activate when a tank overflow is imminent; and
 - (c) sufficient freeboard space above the high level sensor to allow operators time to prevent overflow from occurring.
- 3.3.3 The approval holder shall place all tanks in the waste storage area within earthen berms or equivalent secondary containment structures capable of containing:
- (a) 110% of the volume of the largest tank within the bermed area; and
 - (b) 10% of the aggregate capacity of all other tanks in the bermed area.

SECTION 3.4: WASTE MANAGEMENT

Not used at this time.

SECTION 3.5: DOMESTIC WASTEWATER

Not used at this time.

SECTION 3.6: LAND CONSERVATION

- 3.6.1 The approval holder shall:
- (a) salvage; and

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(b) conserve
all topsoil for land reclamation.

3.6.2 The approval holder shall:

(a) salvage; and
(b) conserve
all upper subsoil for land reclamation.

3.6.3 The approval holder shall:

(a) conserve; and
(b) stockpile
all topsoil separately from the upper subsoil.

3.6.4 The approval holder shall locate all:

(a) topsoil stockpiles; and
(b) upper subsoil stockpiles
at the facility.

3.6.5 The approval holder shall stockpile all topsoil as follows:

(a) on stable foundations; and
(b) on undisturbed topsoil.

3.6.6 The approval holder shall stockpile all upper subsoil as follows:

(a) on stable foundations; and
(b) on areas where the topsoil has been removed.

3.6.7 The approval holder shall take all steps necessary to prevent erosion, including but not limited to, all of the following:

(a) revegetating the stockpiles; and
(b) any other steps authorized in writing by the Director.

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3.6.8 The approval holder shall immediately suspend conservation of:

- (a) topsoil; and
- (b) upper subsoil

when wet or frozen conditions will result in mixing, loss or degradation of topsoil or upper subsoil.

3.6.9 The approval holder shall recommence conservation of:

- (a) topsoil; and
- (b) upper subsoil

only when wet or frozen field conditions in 3.6.8 no longer exist.

PART 4: OPERATIONS, LIMITS, MONITORING AND REPORTING

SECTION 4.1: AIR

OPERATIONS

4.1.1 The approval holder shall not release any air effluent streams to the atmosphere except as authorized by this approval.

4.1.2 The approval holder shall only release air effluent streams to the atmosphere from the following sources:

- (a) one 560 kW industrial boiler stack;
- (b) the space ventilation exhaust stacks as described in the application; and
- (c) the space heater exhaust vents as described in the application.

4.1.3 The approval holder shall not release a substance or cause to be released a substance that causes or may cause any of the following:

- (a) impairment, degradation or alteration of the quality of natural resources;
- (b) material discomfort, harm or adverse effect to the wellbeing or health of a person; or
- (c) harm to property or to vegetative or animal life.

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4.1.4 The approval holder shall not mix hazardous waste with any solid or liquid for:

- (a)** the primary purpose of dilution; or
- (b)** to avoid the requirements of the Waste Control Regulations, Alberta Regulation 192/1996, as amended.

SECTION 4.2: INDUSTRIAL WASTEWATER

OPERATIONS

4.2.1 The approval holder shall not release any substances from the facility to the surrounding watershed except as authorized by this approval.

4.2.2 The approval holder shall manage industrial wastewater as described in the application, unless otherwise authorized in writing by the Director.

4.2.3 The approval holder shall:

- (a)** record; and
- (b)** retain

a summary of the leak detection monitoring system for the receiving area.

4.2.4 The approval holder shall make the records in condition 4.2.3 available at any time upon request for inspection by the Director.

4.2.5 The approval holder shall only dispose of industrial wastewater as follows:

- (a)** to an Alberta Energy Regulator approved disposal well;
- (b)** to an Alberta Energy Regulator approved Waste Processing and Disposal Facility;
- (c)** to a Waste Processing and Disposal Facility holding a current Act authorization;
- (d)** by directing the liquid effluent to an approved municipal wastewater system provided a written permission from the municipal wastewater system operator has first been obtained; or
- (e)** as otherwise authorized in writing by the Director.

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REPORTING

- 4.2.6 The approval holder shall submit an annual Industrial Wastewater Report to the Director.
- 4.2.7 The annual Industrial Wastewater Report shall include, at a minimum, all of the following information:
- (a) an overview of the operation of the facility;
 - (b) a summary and evaluation of management and disposal of the industrial wastewater for the previous year on a monthly basis;
 - (c) the amount of wastewater disposed on a monthly basis;
 - (d) a summary of the monitoring records in 4.2.3; and
 - (e) any other information as required in writing by the Director.

SECTION 4.3: WASTE MANAGEMENT

OPERATIONS

- 4.3.1 The approval holder shall dispose of waste generated at the facility only:
- (a) to facilities holding a current Act authorization;
 - (b) to facilities approved by a local environmental authority outside of Alberta; or
 - (c) as otherwise approved in writing by the Director.
- 4.3.2 The approval holder shall not:
- (a) release; or
 - (b) dispose of
- any waste or recyclable to the surrounding environment, except in accordance with 4.3.1.
- 4.3.3 The approval holder shall store hazardous waste or hazardous recyclables stored in containers in accordance with the *Hazardous Waste Storage Guidelines*, June 1988, Alberta Environment, as amended.
- 4.3.4 The approval holder shall not:
- (a) transfer;

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(b) process; or

(c) store

waste or recyclables in an amount or in a manner that will cause or may cause an adverse effect on human health or the environment.

4.3.5 The approval holder shall not:

(a) process; or

(b) store

(i) waste, or

(ii) recyclables

at the facility in an amount or in a manner that causes or may cause:

(A) fire,

(B) explosion,

(C) violent reaction,

(D) emission of toxic dust, mist, fumes or gases,

(E) emission of flammable fumes or gases, or

(F) any other adverse effect.

4.3.6 The approval holder shall store waste generated at the facility only in the waste storage area.

4.3.7 The approval holder shall prevent direct contact of incompatible wastes and recyclables with one another.

4.3.8 The approval holder shall only accept the materials referred to in TABLE 4.3-A at the facility.

4.3.9 The approval holder is authorized to carry out only the following activities at the facility, as described in the application:

(a) stabilization of industrial and commercial slurries;

(b) treatment of process wastewater; and

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(c) any other process authorized in writing by the Director.

LIMITS

4.3.10 The approval holder shall not exceed the waste storage limits specified in TABLE 4.3-A.

TABLE 4.3-A WASTE STORAGE LIMITS

Waste Type	Material, as defined under TDGA	Quantity (cubic meters)
Bulk Tanks: Wastewater: hazardous and non-hazardous	Wastewater, class 9 and class 8	148
Waste Solids Storage Pad: Industrial and Commercial Slurries	Class 8, 9 and 4.1 waste type only and non-hazardous waste	98

MONITORING AND REPORTING

4.3.11 Prior to the consignment or storage of any waste generated at the facility, the approval holder shall:

- (a) identify;
- (b) characterize; and
- (c) classify

the waste, but not including industrial runoff and air effluent streams, in accordance with the:

- (i) *Industrial Waste Identification and Management Options*, Alberta Environment, May 1996, as amended, and
- (ii) *Alberta User Guide for Waste Managers*, Alberta Environment, August 1996, as amended.

4.3.12 The approval holder shall measure or, when not practical to measure, estimate the quantity of waste generated at the facility each year.

4.3.13 The approval holder shall maintain a daily inventory of waste stored in the waste storage area.

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- 4.3.14 The approval holder shall submit a copy of the daily inventory required in 4.3.13 when requested by the Director.
- 4.3.15 The approval holder shall compile all the information required by 4.3.11 and 4.3.12 in an Annual Waste Management Summary Report:
 - (a) as indicated in TABLE 4.3-B; and
 - (b) in accordance with the:
 - (i) *Industrial Waste Identification and Management Options*, Alberta Environment, May 1996 as amended, and
 - (ii) *Alberta User Guide for Waste Managers*, Alberta Environment, August 1996, as amended.

TABLE 4.3-B ANNUAL WASTE MANAGEMENT SUMMARY

Waste Name	Uniform Waste Code				Quantity (kg or L)		Stored	Recycled		Disposed	
	WC	PIN	Class	Mgmt	Hazardous	Non-hazardous	On-site	On-site	Off-site	On-site	Off-site
TOTAL											

- 4.3.16 The approval holder shall submit the Annual Waste Management Summary Report to the Director.

SECTION 4.4: DOMESTIC WASTEWATER

OPERATIONS

- 4.4.1 The approval holder shall direct all domestic wastewater to the Rocky View County municipal wastewater system.

SECTION 4.5: GROUNDWATER

- 4.5.1 The approval holder shall submit a groundwater monitoring proposal for the facility upon written notice from the Director.

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SECTION 4.6: SOIL

- 4.6.1** In addition to any other requirements specified in this approval, the approval holder shall conduct all of the following activities related to soil monitoring and soil management required by this approval in accordance with the *Soil Monitoring Directive*, Alberta Environment, 2009, as amended:
- (a) designing and developing proposals for the Soil Monitoring Program;
 - (b) designing and developing proposals for the Soil Management Program;
 - (c) all other actions, including sampling, analysing, and reporting, associated with the Soil Monitoring Program; and
 - (d) all other actions, including sampling, analysing and reporting, associated with the Soil Management Program.

MONITORING AND REPORTING

- 4.6.2** The approval holder shall submit the Soil Monitoring Program proposal to the Director according to the following schedule:
- (a) for the first soil monitoring event on or before March 31, 2016; and
 - (b) for the second soil monitoring event on or before March 31, 2021; or
- unless otherwise authorized in writing by the Director.
- 4.6.3** If any Soil Monitoring Program proposal is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director by the date specified in writing by the Director.
- 4.6.4** Subject to 4.6.3, the approval holder shall implement the Soil Monitoring Program as authorized in writing by the Director.
- 4.6.5** If an authorization or a deficiency letter is not issued within 120 days of the applicable date required by 4.6.2, the approval holder shall implement the Soil Monitoring Program:
- (a) in accordance with the program as set out in the proposal submitted by the approval holder; and
 - (b) within 270 days after the applicable date required by 4.6.2.

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- 4.6.6 The approval holder shall submit to the Director each Soil Monitoring Program Report obtained from the soil monitoring referred to in 4.6.4 and 4.6.5 according to the following schedule:
- (a) for the first Soil Monitoring Program Report on or before November 30, 2016; and
 - (b) for the second Soil Monitoring Program Report on or before November, 2021; or
- unless otherwise authorized in writing by the Director.
- 4.6.7 If any Soil Monitoring Program Report is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director by the date specified in writing by the Director.

SOIL MANAGEMENT PROGRAM

- 4.6.8 If the Soil Monitoring Program, or any other soil monitoring, reveals that there are substances present in the soil at concentrations greater than any of the applicable concentrations set out in the standards in the *Soil Monitoring Directive, Alberta Environment, 2009, as amended*, the approval holder shall develop a Soil Management Program Proposal.
- 4.6.9 If a Soil Management Program Proposal is required pursuant to 4.6.8, the approval holder shall submit a Soil Management Program Proposal to the Director according to the following schedule:
- (a) for Soil Management Program Proposal that is triggered by the findings from the first soil monitoring event on or before the date in 4.6.6(a);
 - (b) for Soil Management Program Proposal that is triggered by the findings from a second soil monitoring event on or before the date in 4.6.6(b); or
 - (c) for any other soil monitoring event not specified in this approval within six months of completion of the soil monitoring event.
- 4.6.10 If any Soil Management Program Proposal is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director by the date specified in writing by the Director.
- 4.6.11 The approval holder shall implement the Soil Management Program as authorized in writing by the Director.
- 4.6.12 If the approval holder is required to implement a Soil Management Program pursuant to 4.6.11, the approval holder shall submit a written Soil Management Program

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Report to the Director on or before March 31 of each year following the year in which the information was collected.

- 4.6.13 If any Soil Management Program Report is found deficient by the Director, the approval holder shall correct all deficiencies identified by the Director by the date specified in writing by the Director.

PART 5: FINANCIAL SECURITY REQUIREMENTS

- 5.1.1 The approval holder shall annually review and revise the cost estimate for reclamation of the facility including decommissioning and land reclamation.
- 5.1.2 The annual revised cost estimate for the facility shall be submitted to the Director by March 31 of each year.
- 5.1.3 The approval holder shall review and revise the cost estimate for reclamation of the facility when one or more of the following occurs:
- (a) the cost estimate of future conservation and reclamation of the facility changes;
 - (b) the extent of the operation of the facility is increased or reduced;
 - (c) the facility or any portion of it is conserved and reclaimed;
 - (d) the conservation and reclamation plan required by this approval is changed;
or
 - (e) the activities conducted at the facility for which security is required is increased or decreased.
- 5.1.4 The approval holder shall submit the revised cost estimate arising from 5.1.3 to the Director within 30 days after the occurrence of any of the circumstances described in 5.1.3.
- 5.1.5 The approval holder shall provide additional financial security as required in writing by the Director.
- 5.1.6 The approval holder shall renew the financial security for the facility at least 30 days prior to the date it expires.
- 5.1.7 The approval holder shall maintain the financial security for the facility until returned in accordance with the Act or the regulations.

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PART 6: DECOMMISSIONING AND LAND RECLAMATION

SECTION 6.1: GENERAL

6.1.1 The approval holder shall apply for an amendment to this approval to reclaim the facility by submitting a:

- (a) Decommissioning Plan; and
- (b) Land Reclamation Plan

to the Director.

6.1.2 The approval holder shall submit the:

- (a) Decommissioning Plan; and
- (b) Land Reclamation Plan

referred to in 6.1.1 within six months of the facility ceasing operation, except for repairs and maintenance, unless otherwise authorized in writing by the Director.

SECTION 6.2: DECOMMISSIONING

6.2.1 The Decommissioning Plan referred to in 6.1.1 shall include, at a minimum, all of the following:

- (a) a plan for dismantling the facility;
- (b) a comprehensive study to determine the nature, degree and extent of contamination at the facility and affected lands;
- (c) a plan to manage all wastes at the facility;
- (d) evaluation of remediation technologies proposed to be used at the facility and affected lands;
- (e) a plan for decontamination of the facility and affected lands in accordance with the following:
 - (i) for soil or groundwater, *Alberta Tier 1 Soil and Groundwater Remediation Guidelines*, Alberta Environment, February 2009, as amended,
 - (ii) for soil or groundwater, *Alberta Tier 2 Soil and Groundwater Remediation Guidelines*, Alberta Environment, February 2009, as amended,

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- (iii) for drinking water, *Canadian Environmental Quality Guidelines*, Canadian Council of Ministers of the Environment, PN 1299, 1999, as amended, and
- (iv) for surface water, *Surface Water Quality Guidelines for Use in Alberta*, Alberta Environment, November 1999, as amended;
- (f) confirmatory testing to indicate compliance with the remediation objectives;
- (g) a plan for maintaining and operating contaminant monitoring systems;
- (h) a schedule for activities (a) through (g) above; and
- (i) any other information as required in writing by the Director.

6.2.2 If the Decommissioning Plan is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director by the date specified in writing by the Director.

SECTION 6.3: LAND RECLAMATION

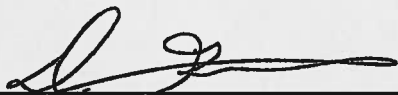
- 6.3.1** The Land Reclamation Plan referred to in 6.1.1 shall include, at a minimum, all of the following:
- (a) the final use of the reclaimed area and how equivalent land capability will be achieved;
 - (b) removal of infrastructure;
 - (c) restoration of drainage;
 - (d) soil replacement;
 - (e) erosion control;
 - (f) revegetation and conditioning of the facility including:
 - (i) species list, seed source and quality, seeding rates and methods,
 - (ii) fertilization rates and methods, and
 - (iii) wildlife habitat plans where applicable;
 - (g) reclamation schedule; and
 - (h) any other information as required in writing by the Director.

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6.3.2 If the Land Reclamation Plan is found deficient by the Director, the approval holder shall correct all deficiencies identified in writing by the Director by the date specified in writing by the Director.

June 6 , 2014

DATE



DESIGNATED DIRECTOR UNDER THE ACT
DAVE GOWER, M.SC.