

ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0999-C3TJP3

Issue Date: August 21, 2023

H & D Properties Ltd.
10839 Van Camp Rd
Mountain, Ontario
K0E 1P0

Site Location: Prescott Anaerobic Digester Facility
1336 County Road 2 Rd
Augusta Township, United Counties of Leeds and
Grenville, Ontario

You have applied under section 20.2 of Part II.1 of the Environmental Protection Act, R.S.O. 1990, c. E. 19 (Environmental Protection Act) for approval of:

a 6.3-hectare waste disposal site (processing) to receive, temporarily store and process in an anaerobic digestion facility up-to a maximum of 600 tonnes of the Organic Waste per day and 219,000 tonnes of the Organic Waste per year. The anaerobic digestion facility will produce the renewable natural gas at a maximum rate of 26,000 cubic metres per day for injection into the natural gas distribution infrastructure and the digestate at a maximum rate of 540 tonnes per day for use as a soil nutrient or a fertilizer.

The waste disposal site comprises the following receipt, storage and processing areas:

- Reception Building comprising the following processes, working areas and equipment:
 - Feedstock Receiving Area, including a wheel wash area and two (2) fast-acting bay doors equipped with air curtains;
 - Forklift Dumping Area;
 - Dry Storage Area;
 - one (1)-40 m³ Liquids Receiving Tank;
 - a roll-up door between the Broadcast Floor and the Feedstock Receiving Area;

- Broadcast Floor;
 - Processing Area, encompassing two (2) separators, one (1) sedi tank, one (1)-2 m³ surge tank, one (1) residual waste conveyer and one (1) residual waste compactor and bin;
 - ventilation system, that maintains negative air pressure in the Reception Building and collects the odourous air from the source extraction points that include as a minimum the following sources:
 - Feedstock Receiving Area
 - Forklift Dumping Area;
 - Broadcast Floor;
 - Processing Area;
 - activated carbon filter to treat the contaminated air collected through the ventilation system;
- Outdoor tanks and vessels:
 - one (1)-4,000 m³ Liquid Storage Tank equipped with an activated carbon filter;
 - two (2)-7,870 m³ Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessels, each Vessel consisting of a 1,430 m³ hydrolyzer section, a 6,050 m³ anaerobic digestion section, and a 390 m³ pasteurizer section, to process Organic Waste at a maximum rate of 300 tonnes per day;
 - one (1)-1,000 m³ partially below grade level, Liquid Storage Tank equipped with an activated carbon filter;
 - three (3)-200 m³, each, starch silos;
 - one (1)-10 m³ starch mix tank;
 - Biogas Management System comprising the following processes, working areas and equipment:
 - one (1) Biogas Pre-Treatment System consisting of an activated carbon system;
 - one (1) Biogas Upgrading System, used to produce renewable natural gas from Biogas, using pressure swing adsorption;
 - one (1) Biogas Flare, operating as a stand-by biogas or a renewable natural gas combustion control device;

to be used for processing of the following types of waste generated in the Province of Ontario:

- solid non-hazardous Organic Waste, and
- liquid non-hazardous Organic Waste;

all derived from plants or animals, listed in Condition 3.1(2) of this Approval, from residential (domestic), industrial, commercial and institutional sources and all readily biodegradable.

Note: Use of the site for any other type of waste is not approved under this environmental compliance approval, and requires obtaining a separate approval amending this environmental compliance approval.

For the purpose of this environmental compliance approval, the following definitions apply:

"Adverse Effect" as defined in the EPA;

"Air Treatment System" means the air pollution control approved under the Air/Noise Approval;

"Air/Noise Approval" means the Environmental Compliance Approval and any Schedules attached to it, including the application and its supporting documentation for activities set out in section 9 of the EPA and carried out at the Site; and

"Anaerobic Digester(s)" means the section(s) of the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s) used for Anaerobic Digestion of the approved Organic Waste and as defined in Regulation 347;

"Anaerobic Digestion Output" means the liquid material that results from the treatment of the approved Organic Waste in the Anaerobic Digester(s);

"Approval" means this Environmental Compliance Approval and any Schedules to it, including the application and supporting documentation listed in Schedule 1;

"bar" is a unit of pressure;

"Biogas Flare" means the Biogas combustion equipment and any associated equipment described in the Owner's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval and the Air/Noise Approval;

"Biogas Upgrading System" means the Biogas upgrader and any associated gas treatment equipment described in the Owner's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval and the Air/Noise Approval;

"Biogas" means the gaseous waste generated from microbial biodegradation of the approved Organic Waste conducted under anaerobic conditions and has the physical attributes and the chemical composition, in particular the methane and carbon dioxide content, of a gas considered to be a biogas by the biogas industry;

"**CFIA**" means the Canadian Food Inspection Agency;

"**Clean-Out Material**" means the Residual Waste removed from the Digester due to floating or settling of the material and that has been recovered as part of maintenance of the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s);

"**Digestate**" is a processed organic waste as defined in Regulation 347 and within the context of this Approval it means the output from the Pasteurizer(s);

"**Director**" means a person appointed by the Minister pursuant to section 5 of the EPA for the purposes of Part II.1 of the EPA;

"**District Manager**" means the District Manager of the appropriate local district office of the Ministry where the Site is geographically located or such other official of the Ministry as may be assigned the duties of the District Manager;

"**EASR**" means the Environmental Activity and Sector Registry;

"**EPA**" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19, as amended;

"**Equipment**" means the equipment described in the Owner's application, this Approval and in the supporting documentation submitted with the application, to the extent approved by this Approval;

"**Equivalent Equipment**" means alternate piece(s) of equipment that meets the design requirements and performance specifications of the piece(s) of equipment to be substituted;

"**Fertilizer**" means any substance or mixture of substances, containing nitrogen, phosphorus, potassium or other plant food, that is manufactured, sold or represented for use as a plant nutrient, as defined in the Fertilizers Act;

"**Fertilizers Act**" means the *Fertilizers Act*, R.S., 1985, c-F-10, as amended;

"**Final Disposal**" within the context of this Approval means land disposal and thermal treatment, both as defined in Regulation 347, and does not include handling, storing, transferring, treating or processing of waste at a land disposal or a thermal treatment site;

"**Financial Assurance**" is as defined in Section 131 of the EPA;

"**FOG**" means fats, oils and greases;

"**Foreign Matter**" within the context of this Approval means materials that include but are not limited to glass, metallic objects, plastic and other foreign objects that are not typically considered naturally occurring;

"**Human Body Waste**" means waste derived from or containing wastes from the human body, limited to

used diapers, used incontinence products and used sanitary products collected through the municipal source separated waste collection programs or the IC&I collection programs;

"Hydrolyzer(s)" means the section(s) of the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s) used for Organic Waste pre-treatment;

"IC&I" means industrial, commercial and institutional;

"cm²" means square centimetre(s);

"cm³" means cubic centimetre(s);

"m²" means square metre(s);

"m³" means cubic metre(s);

"Malfunction" means any sudden, unplanned, infrequent and not reasonably preventable failure of the equipment associated with maintaining or monitoring negative pressure and/or negative air balance in the Reception Building, excluding failures that may be caused in part by poor maintenance or negligent operation or failure of the equipment associated with any Organic Waste processing/treatment resulting in non-compliance with the requirements of this Approval;

"Manual" means a document or a set of documents that provide written instructions to staff of the Owner;

"Ministry" means the ministry of the government of Ontario responsible for the EPA and includes all officials, employees or other persons acting on its behalf;

"NASM" means non-agricultural source materials as defined in and within the meaning of O. Regulation 267/03;

"NMA" means the *Nutrient Management Act*, 2002, S.O. 2002, c. 4, as amended;

"O. Regulation 267/03" means Ontario Regulation 267/03, General, made under the NMA, as amended;

"°C" means degrees Celsius.

"Off-Farm Anaerobic Digestion Materials" is as defined in O. Regulation 267/03 and Regulation 347, and within the context of this Approval it means the Organic Waste destined for the Anaerobic Digester(s) at the Site;

"Organic Waste" means solid and liquid non-hazardous organic waste derived from plants or animals, readily biodegradable and suitable for microbial biodegradation conducted under anaerobic conditions,

and as further described in Condition 3.1 of this Approval. Solid Organic Waste means a municipal waste as defined in Regulation 347. Liquid Organic Waste means a liquid waste as defined in Regulation 347;

"**Owner**" means H & D Properties Ltd. that is responsible for the establishment and operation of the Site being approved by this Approval, any contractors that work on behalf of the Owner and includes any successors and assigns;

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

"**PA**" means the *Pesticides Act*, R.S.O. 1990, c.P. 11, as amended;

"**Pasteurizer(s)**" means the section(s) of the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s) and the associated tubing used for pathogen inactivation;

"**Phase 1**" means the initial phase of the Site development as approved under this Approval;

"**Phase 2**" means the final phase of the Site development as approved under this Approval;

"**Processed Organic Waste**" is as defined as defined in Regulation 347;

"**Professional Engineer**" means a Professional Engineer as defined within the *Professional Engineers Act*, R.S.O. 1990, c. P.28, as amended;

"**Provincial Officer**" means any person designated in writing by the Minister as a provincial officer pursuant to Section 5 of the OWRA or Section 5 of the EPA or Section 17 of the PA or Section 4 of the NMA or Section 8 of the SDWA;

"**Reception Building**" means the enclosed building located at the Site where the solid Organic Waste is to be received, pre-processed and temporarily stored prior to transfer to the Digester Feed Tanks;

"**Regulation 347**" means Regulation 347, R.R.O. 1990, General - Waste Management, made under the EPA, as amended;

"**Rejected Waste**" means the incoming load inadvertently received at the Site and deemed by the Owner to be waste that does not meet the incoming Waste quality criteria set out in this Approval or that cannot be processed;

"**Renewable Natural Gas**" means the Biogas upgraded in the Biogas Upgrading System and destined for injection into natural gas distribution infrastructure;

"**Residual Waste**" means waste resulting from waste management activities at the Site and destined for further management at an off-Site location or Final Disposal. Residual Waste includes the Clean-Out Material;

"Sampling and Analysis Protocol" means the document entitled "Sampling and Analysis Protocol for Ontario Regulation 267/03 made under the *Nutrient Management Act, 2002*", prepared by the Ministry of Agriculture, Food and Rural Affairs and the Ministry of the Environment, Conservation and Parks and dated July 1, 2021;

"SDWA" means the *Safe Drinking Water Act, 2002*, S.O. 2002, c. 32, as amended;

"Sensitive Receptor" means any location where routine or normal activities occurring at reasonably expected times would experience adverse effect(s) from odour discharges from the Site, including one or a combination of:

- commercial areas where there are continuous human activities (e.g.: commercial plazas and office buildings);
- institutional facilities (e.g.: schools, churches, community centres, day care centres, recreational centres, etc.),
- outdoor public recreational areas (e.g.: trailer parks, play grounds, picnic areas, etc.), and
- private residences or public facilities where people sleep (e.g.: single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);

"Site" means the waste disposal site referred to as Prescott Anaerobic Digester Facility located at 1336 County Road 2 Rd Augusta Township, United Counties of Leeds and Grenville and as shown in the supporting documentation listed in the attached Schedule 1;

"Slump Test" means the Test Method for the Determination of Liquid Waste set out in Schedule 9 of Regulation 347;

"Spill" is as defined in the EPA;

"SSO" means the source separated Organic Waste which consists of the Organic Waste suitable for Anaerobic Digestion, which has been separated at its source of origin by the generator of the waste and including the bags used by the generator to encase the Organic Waste at the source of generation;

"Trained Personnel" means one or more Site personnel trained in accordance with the requirements of Condition 11.2. including an employee trained or knowledgeable through instruction and/or practice and able to carry out any necessary duties related to management of the Waste as approved in this Approval.

"Trucks" means the reagent truck(s) and the waste truck(s);

"Waste" means the waste approved for receipt at the Site and waste in-process; and

"waste" within the context of this Approval, it means any material defined as a waste or designated to be a waste under any Ontario regulation or any other discarded, unwanted, unsuitable for its original use or purpose (for example off-specification or expired) post-consumer goods, items or materials. Any outputs from processing/treatment of waste at a waste disposal site continue to be considered waste.

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

TERMS AND CONDITIONS

1.0 GENERAL

1.1 Compliance

- (1) The Owner shall ensure compliance with all the conditions of this Approval and shall ensure that any person authorized to carry out work on or operate any aspect of the Site is notified of this Approval and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.
- (2) Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Approval.

1.2 Build, etc. in Accordance

- (1) The Site shall be constructed and the approved Phase 1 equipment shall be installed and must commence operation, within five (5) years of issuance of this Approval and approved Phase 2 equipment shall be installed and must commence operation within ten (10) years of the issuance of this Approval, after which time the Approval ceases to apply in respect of any portions of the Site not in operation. In the event that the construction, installation and/or operation of any portion of the Site is anticipated to be delayed beyond the time period stipulated, the Owner shall submit to the Director an application to amend the Approval to extend this time period, at least six (6) months prior to the end of the period. The amendment application shall include the reason(s) for the delay and whether there is any design change(s).

1.3 As-built Drawings

- (1) A set of as-built drawings, certified by a Professional Engineer and showing the design of the Site, shall be kept at the Site at all times.

1.4 Interpretation

- (1) Where there is a conflict between a provision of any document, including the application referred to in this Approval and the conditions of this Approval, the conditions in this Approval shall take precedence.
- (2) Where there is a conflict between the application and a provision in any documents listed in Schedule 1, the application shall take precedence, unless it is clear that the purpose of the document was to amend the application and that the Ministry approved the amendment.

- (3) Where there is a conflict between any two documents listed in Schedule 1 other than the application, the document bearing the most recent date shall take precedence.
- (4) The requirements of this Approval are severable. If any requirement of this Approval, or the application of any requirement of this Approval to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Approval shall not be affected thereby.

1.5 Other Legal Obligations

- (1) The issuance of, and compliance with the conditions of this Approval does not:
 - a. relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or
 - b. limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner to furnish any further information related to compliance with this Approval.
- (2) Despite an Owner or any other person fulfilling any obligations imposed by this Approval, the person remains responsible for any contravention of any other condition of this Approval or any applicable statute, regulation, or other legal requirement resulting from any act or omission that caused the Adverse Effect or impairment of water quality.

1.6 Adverse Effect

- (1) The Site shall be constructed, operated and maintained in a manner which ensures the health and safety of all persons and prevents generation of negative environmental impacts including but not limited to dust, odours, vectors, pests, birds, litter, vibration, noise and any other negative environmental effects that may cause an Adverse Effect.
- (2) If at any time dust, including dust from vehicles leaving the Site, odours, vectors, pests, birds, litter, vibration, noise or other such negative environmental effects are generated at the Site and cause an Adverse Effect, the Owner shall take immediate and appropriate remedial action(s) that is/are necessary to alleviate the Adverse Effect, including suspension of all waste management activities and removal of waste from the Site, if necessary.
- (3) The Owner shall take steps to minimize and ameliorate any Adverse Effect on the natural environment or impairment of water quality resulting from the approved operations at the Site, including such steps as accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment.

1.7 Change of Owner and Operator

- (1) The Owner shall notify the Director in writing, and forward a copy of the notification to the

District Manager, within thirty (30) days of the occurrence of any change in:

- a. the ownership of the Site;
 - b. the operator of the Site;
 - c. the address of the Owner;
 - d. the 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. B.17, as amended, shall be included in the notification; or
 - e. the name of the corporation where the Owner is or at any time becomes a corporation, other than a municipal corporation, and a copy of the most current information filed under the *Corporations Information Act*, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.
- (2) The Owner shall notify the District Manager, in writing, of any of the following changes within thirty (30) days of the change occurring:
- a. change of address of the Operator; and
 - b. change of the Operator, including address of the new Operator.
- (3) No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance. In the event of any change in ownership of the Site, other than change to a successor municipality, the Owner shall notify the successor of and provide the successor with a copy of this Approval, and the Owner shall provide a copy of the notification to the District Manager and the Director.

1.8 Inspections by the Ministry

- (1) No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA of any place to which this Approval relates, and without limiting the foregoing:
- a. to enter upon the premises where the approved processing is undertaken, or the location where the records required by the conditions of this Approval are kept;
 - b. to have access to, inspect, and copy any records required to be kept by the conditions of this Approval;
 - c. to inspect the Site, related equipment and appurtenances;

- d. to inspect the practices, procedures, or operations required by the conditions of this Approval;
- e. to conduct interviews with staff, contractors, agents and assignees of the Owner; and
- f. to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Approval or the EPA, the OWRA, the PA, the SDWA or the NMA.

1.9 Information and Record Retention

- (1) Any information requested by the Ministry, concerning the operation of the Site and its operation under this Approval, including but not limited to any records required to be kept by this Approval shall, upon request, be provided to the Ministry in a timely manner and in a format specified by the Ministry. All records shall be retained for five (5) years except as otherwise authorized in writing by the Director.
- (2) The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Approval or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:
 - a. an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Approval or any statute, regulation or other legal requirement; or
 - b. acceptance by the Ministry of the information's completeness or accuracy.
- (3) The Owner shall ensure that a copy of this Approval, in its entirety and including all its Notices of Amendment, and the documentation listed in Schedule 1, are retained at the Owner's office at all times.

1.10 Financial Assurance

- (1) Within three hundred and sixty (365) days from the date of this Approval, the Owner shall submit to the Director, the Financial Assurance, as defined in Section 131 of the EPA in the amount of CAN\$473,319.00 This Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the transportation, Site clean-up and disposal of all approved quantities of waste at the Site during Phase 1, at any one time.
- (2) Within sixty (60) days from the date of the District Manager notification regarding commencement of Phase 2, the Owner shall submit to the Director, additional Financial Assurance, as defined in Section 131 of the EPA in the amount of CAN\$391,875.00 This additional Financial Assurance shall be in a form acceptable to the Director and shall provide sufficient funds for the transportation, Site clean-up and disposal of all approved quantities of waste at the Site during Phase 2, at any one time.
- (3) Commencing on March 31, 2027 and at intervals of five (5) years thereafter, the Owner shall

submit to the Director, a re-evaluation of the amount of Financial Assurance to implement the actions required under Condition 1.10.(1) and 1.10(2). The re-evaluation shall include an assessment based on any new information relating to the environmental conditions of the Site and shall include the costs of additional monitoring and/or implementation of contingency plans required by the Director upon review of the closure plan and annual reports. The Financial Assurance must be submitted to the Director within thirty (30) calendar days of written acceptance of the re-evaluation by the Director.

- (4) The amount of Financial Assurance is subject to review at any time by the Director and may be amended at his/her discretion. If any Financial Assurance is scheduled to expire or notice is received, indicating Financial Assurance will not be renewed, and satisfactory methods have not been made to replace the Financial Assurance at least sixty (60) days before the Financial Assurance terminates, the Financial Assurance shall forthwith be replaced by cash.

1.11 Certificate of Requirement

- (1) Prior to dealing with the property in any way, the Owner shall provide a copy of this Approval and any amendments, to any person who will acquire an interest in the property as a result of the dealing.
- (2) Within ninety (90) calendar days from the date of issuance of this Approval, the Owner shall submit to the Director a completed Certificate of Requirement which shall include:
 - a. a plan of survey prepared, signed and sealed by an Ontario Land Surveyor, which shows the area of the Site where waste has been or is to be deposited at the Site or is or has been affecting the soil or the surface water or the groundwater at the Site;
 - b. proof of ownership of the Site;
 - c. a letter signed by a member of the Law Society of Upper Canada or other qualified legal practitioner acceptable to the Director, verifying the legal description provided in the Certificate of Requirement; and
 - d. the legal abstract of the property; and
 - e. any supporting documents including a registerable description of the Site.
- (3) Within thirty (30) calendar days of receiving a Certificate of Requirement authorized by the Director, the Owner shall:
 - a. register the Certificate of Requirement in the appropriate Land Registry Office on the title to the property; and
 - b. submit to the Director written verification that the Certificate of Requirement has been registered on title.

2.0 SIGNS and SITE SECURITY

2.1 Signs

- (1) The Owner shall ensure that a sign is posted at the entrance to the Site, readable from the nearest public roadway bordering the Site. The following information shall be included on the sign:
 - a. name of the Owner and the Operator;
 - b. this Approval number;
 - c. normal hours of operation;
 - d. Owner's telephone number to which complaints may be directed;
 - e. Ministry's telephone numbers to which complaints may be directed;
 - f. Owner's twenty-four hour emergency telephone number (if different from above);
 - g. a warning against unauthorized access; and
 - h. a warning against dumping at the Site.
- (2) The Owner shall install and maintain appropriate and visible signs at the Site to direct vehicles to the Waste, including the Organic Waste, receiving areas and the Digestate and the Residual Waste removal areas.
- (3) The Owner shall post appropriate and visible signs along the traffic route providing clear directions to the Site and to all Waste drop-off areas clearly identifying the acceptable Waste types and other appropriate instructions.

2.2 Site Security

- (1) The Owner shall ensure that all Waste management activities carried out at the Site are supervised at all times by Trained Personnel.
- (2) The Owner shall ensure the Site is operated in a safe and secure manner, and that all Waste is properly handled, contained or stored so as not to pose any threat to the general public and the Site personnel.
- (3) The Owner shall ensure that access to the Site is regulated and that the Site is secured to restrict access only to authorized personnel.
- (4) The Owner shall ensure that all Site entrances and buildings are gated and locked to restrict access only to authorized personnel when the Site is not open.

3.0 SERVICE AREA, APPROVED WASTE TYPES and RATES

3.1 Service Area and Approved Waste Types

- (1) The Owner shall only accept the approved Waste generated in the Province of Ontario and the Province of Quebec.
- (2) The Owner is approved to receive the following Waste types at the Site:

- a. Organic Waste from the following IC&I sources:
 - i. bakeries;
 - ii. confectionary processing facilities;
 - iii. dairies and facilities that process dairy products;
 - iv. fruit and vegetable processing facilities;
 - v. cereal and grain processing facilities;
 - vi. oil seed processing facilities;
 - vii. snack food processing facilities;
 - viii. snack food manufacturing facilities;
 - ix. breweries and distillers grain;
 - x. wineries;
 - xi. beverage manufacturing facilities;
 - xii. food processing facilities;
 - xiii. grocery stores;
 - xiv. food distribution companies;
 - xv. milling facilities;
 - xvi. fruit and vegetable packing facilities;
 - xvii. pet food manufacturing;
 - xviii. food waste from restaurants, food service facilities, correctional facilities;
 - xix. alcohols (beer and other spirits);
 - xx. organic waste from agricultural sources limited to non-putrescible animal feed and crop residues;
 - xxi. food grade fats, oils and grease residues; and
 - xxii. production of ethanol or biodiesel;

- b. SSO from the residential (domestic) curbside collection programs operated by a municipality or on behalf of a municipality and that does not contain soiled diapers, soiled incontinence products, soiled sanitary products and pet wastes; and

- c. SSO from the institutional generators including airports, hospitals, long-term homes and schools.

3.2 Prohibited Waste Types

- (1) The Site is not approved to receive the waste types that include:
 - a. any waste that is classified as hazardous waste in accordance with Regulation 347;
 - b. SSO from the residential (domestic) curbside collection programs operated by a municipality or on behalf of a municipality and that may contain human body waste from soiled diapers, soiled incontinence products, soiled sanitary products and pet wastes;
 - c. any non-hazardous animal carcasses, including regulated dead animals as defined in O. Regulation 105/09: Disposal of Deadstock under the *Food Safety and Quality Act*, 2001,

S.O. 2001, c.20;

- d. any waste that is classified as "Specified Risk Materials" which has the same meaning as in section 6.1 of the *Health of Animals Regulations* (C.R.C., c. 296), made under the *Health of Animals Act* (S.C. 1990, c. 21), as amended;
- e. any untreated septage as defined in O. Regulation 267/03 or hauled sewage as defined in Regulation 347;
- f. any sewage sludge, which within the context of this Approval means the organic materials resulting from treatment of sewage containing human pathogens, including toilet or other bathroom waste, up-to but not including the anaerobic digestion processing step at sewage works, or any biosolids, which within the context of this Approval mean the organic materials resulting from treatment of sewage containing human pathogens, including toilet or other bathroom waste, including the anaerobic digestion processing step at sewage works, where the sewage works is subject to the requirements under the OWRA and,
 - i. means any works for the collection, transmission, treatment and disposal of sewage or any part of such works, but does not include plumbing to which the *Building Code Act*, 1992 applies; and
 - ii. is owned by a municipality or is privately-owned;
 - iii. is owned by the Crown or the Ontario Clean Water Agency, subject to an agreement with a municipality under the OWRA; or
 - iv. receives only waste similar in character to the sewage containing human pathogens, including toilet or other bathroom waste;
- g. dedicated loads of soiled diapers, soiled incontinence products, soiled sanitary products and pet waste from the IC&I sources;
- h. any liquid IC&I waste that does not meet the definition of the Organic Waste;
- i. any SSO that contains or is suspected of containing plant or animal products or by-products taken from aircraft, passengers and/or crew of the aircraft arriving in Ontario; and
- j. any SSO that contains or is suspected of containing plant or animal products or by-products taken from a vessel, passengers and/or crew of vessels arriving in Ontario.

3.3 Waste Receipt Rates

(1) In Phase 1, the Owner is approved to receive the Organic Waste in quantities that are not to exceed:

- a. average of 300 tonnes or 300 m³ of the Organic Waste per day, averaged over the preceding

12-month period;

- b. maximum daily amounts of 500 tonnes or 500 m³ of the Organic Waste of per day; and
- c. a maximum of 109,500 tonnes of the Organic Waste annually.

(2) In Phase 2, the Owner is approved to receive the Organic Waste in quantities that are not to exceed:

- a. average of 600 tonnes per day or 600 m³ of the Organic Waste, averaged over the preceding 12-month period;
- b. maximum daily amounts of 1,000 tonnes or 1,000 m³ of the Organic Waste of per day; and
- c. a maximum of 219,000 tonnes of the Organic Waste annually.

4.0. SITE OPERATIONS

4.1 Operating Hours

(1) The Owner shall ensure that the chemical reagents are received and the Digestate is shipped from the Site only between the hours of,

- a. Monday to Saturday: open 24 hours per day for deliveries; and
- b. Sunday: 7:00 a.m. to 7:00 p.m.

(2) The Owner is approved to receive Organic Waste deliveries as follows:

- a. Monday to Saturday: 24 hours per day.

(3) The Owner is approved to undertake Organic Waste processing/management activities at the Site twenty-four (24) hours per day, seven (7) days per week.

(4) The approved operating hours set out in Conditions 4.1(1) and 4.1(2) are subject to compliance with the applicable municipal by-laws.

4.2 Approved Organic Waste Management Activities

(1) The following waste management activities are approved under this Approval:

- a. receipt of the liquid and solid Organic Waste at the Site;
- b. temporary storage of the incoming contaminated solid Organic Waste on the Broadcast Floor;
- c. temporary storage of the incoming containerized contaminated solid Organic Waste in the Dry Storage Area and the Storage Area;
- d. temporary storage of the incoming clean solid Organic Waste in three (3) Starch Storage

Silos;

- e. transfer of the clean solid Organic Waste from the Starch Storage Silos to one (1)-10 m³ Starch Mix Tank;
- f. temporary storage of the incoming liquid Organic Waste in one (1)-40 m³ Liquids Receiving Tank, one (1)-1,000 m³ Liquid Storage Tank and one (1)-4,000 m³ Liquid Storage Tank;
- g. pre-processing of the solid Organic Waste in two (2) Separators;
- h. transfer of the solid Residual Waste from the Separators to one (1) Compactor;
- i. transfer of the liquid Organic Waste from the Separators to one (1) Sedi Tank for further removal of non-organic contamination;
- j. transfer to and temporary storage of the clean Organic Waste from the Sedi Tank in one (1)-2 m³ Surge Tank;
- k. transfer of the clean Organic Waste from the Surge Tank into up-to two (2) Hybrid Anaerobic Digester Vessels, each with a total capacity of 7,870 m³;
- l. hydrolysis (pre-treatment) of the Organic Waste in the Hydrolyzer(s);
- m. Anaerobic Digestion of the Organic Waste from the Hydrolyzer in the Anaerobic Digester(s);
- n. pasteurization of the Anaerobic Digestion Output in the Pasteurizer(s);
- o. unloading of the Digestate into tanker trucks for transport to a NASM Plan Site or a site for the end-use as a Fertilizer;
- p. Biogas pre-treatment in the Biogas Pre-Treatment System through an activated carbon system to remove volatile organic compounds and hydrogen sulphide and transfer of the condensate to the Hydrolyzer(s);
- q. Biogas upgrading to Renewable Natural Gas in the Biogas Upgrading System;
- r. venting of the tail gas from the Biogas Upgrading System to the atmosphere as approved in the Air/Noise Approval; and
- s. emergency flaring of the treated or untreated Biogas in the Biogas Flare during periods when the Biogas Pre-Treatment and upgrading Systems are down or when Biogas generation exceeds the capacity of the Biogas cleaning and upgrading system or when Biogas generation from the Hybrid Anaerobic Digester Vessel(s) requires flaring as approved in the Air/Noise

Approval.

4.3 Incoming Waste Receipt

- (1) The Owner shall inspect all accompanying Organic Waste characterization documentation to ensure that only the Organic Waste that is approved under this Approval is received at the Site.
- (2) The incoming Organic Waste that has not been characterized in accordance with this Approval or that is not accompanied by the required documentation shall not be accepted at the Site and shall immediately be directed off-Site.
- (3) The Owner shall weigh all incoming and outgoing waste loads and shall establish and implement a waste screening and tracking system for all waste received, processed, stored at and transferred from the Site.
- (4) Upon arriving at the Site, the Owner shall visually inspect all incoming solid Organic Waste loads prior to unloading within the confines of the Reception Building.
- (5) Following the visual inspection required by Condition 4.3(4), the solid Organic Waste shall be forthwith unloaded onto the Broadcast Floor.
- (6) When the Organic Waste is temporarily stored on the Broadcast Floor, the Trained Personnel again visually inspect the Organic Waste and shall remove large inorganic contaminants that cannot be processed with the separation equipment as proposed in the supporting documentation listed in the attached Schedule 1.
- (7) All incoming liquid Organic Waste loads delivered directly to the Liquid Receiving Tank via a cam-lock connection in the Reception Building.
- (8) The Owner shall ensure that a drip tray is placed under cam-lock connection when the liquid Organic Waste is being unloaded the tanker trucks.
- (9) The Organic Waste destined for storage in the Starch Silos shall only be unloaded into the Silos if the air abatement equipment approved in the Air/Noise Approved is operating.
- (10) The Owner shall ensure that all incoming Organic Waste that is received at the Site and handled in accordance with this Approval, is used as the feedstock in the Digester(s).
- (11) In the event that Organic Waste cannot be processed at the Site and the Site is at its approved storage capacity, the Owner shall cease accepting additional Organic Waste. Receipt of additional Organic Waste may be resumed once such receipt complies with the storage limits approved in this Approval.

4.4 Rejected Waste Management

- (1) In the event that a load of solid waste that does not meet the quality criteria from this Approval is inadvertently accepted in the Reception Building, the Owner shall ensure that this Rejected Waste:
 - a. is handled and removed from the Site in accordance with Regulation 347 and the EPA;
 - b. is separated from the solid Organic Waste approved for receipt;
 - c. is stored within the confines of the Reception Building at all times; and
 - d. is removed from the Site within forty eight (48) hours of its receipt or as acceptable to the District Manager.
- (2) The Rejected Waste shall be shipped back to the generator or to a Ministry-approved waste disposal site for Final Disposal or further processing.
- (3) In the event that a load of liquid waste that does not meet the quality criteria from this Approval is inadvertently accepted at the Site and is mixed with the approved Organic Waste in the Liquids Receiving Tank or the Liquid Storage Tanks, the entire contents of the Tanks shall be considered the Rejected Waste and the Owner shall ensure that this Rejected Waste is handled and removed from the Site in accordance with the contingency measures as required in Condition 12.0 of this Approval.
- (4) In the event of the receipt of the Rejected Waste, a record shall be made in the daily log book or in an electronic file of the reason why the waste is being refused and of the origin of the waste.
- (5) District Manager shall be notified in writing of the receipt of the Rejected Waste within three (3) business days.
- (6) The following information shall be included in the notification to the District Manager:
 - a. quantity and type of the waste;
 - b. source of the waste;
 - c. reason why the waste was refused;
 - d. final destination of the Rejected Waste, if known; and
 - e. time and date of receipt and time and date of removal from the Site.

4.5 Storage Amounts

- (1) The Owner is approved to store at any one time the following amounts of the incoming solid Organic Waste:
 - a. no more than 80 m^3 of the SSO and solid IC&I Waste shall be temporarily stored in the Broadcast Floor with area of 165 m^2 ;
 - b. no more than $2,000 \text{ m}^3$ of packaged and sealed non-putrescible IC&I Organic Waste shall be stored in the Dry Storage Area;

- c. no more than 600 m³ of starch shall be stored in three (3)-200 m³, each, Starch Mix Silo(s);
and
 - d. no more than 10 m³ shall be stored in one (1) Starch Mix Tank.
- (2) The Owner is approved to store at any one time the following amounts of the incoming liquid Organic Waste:
- a. no more than 40 m³ of liquid IC&I Organic Waste shall be temporarily stored in one (1) Liquid Receiving Tank within the Reception Building, at any one time;
 - b. no more than 2 m³ of liquid IC&I Organic Waste shall be temporarily stored in one (1)-2 m³ Surge Tank, at any one time;
 - c. no more than 40 m³ of liquid IC&I Organic Waste shall be temporarily stored in one (1)-40 m³ Surge Tank, at any one time;
 - d. no more than 1,000 m³ of liquid IC&I Organic Waste shall be temporarily stored in one (1)-1,000 m³ Liquid Storage Tank in Phase 1, at any one time; and
 - e. no more than 4,000 m³ of liquid IC&I Organic Waste shall be temporarily stored in one (1)-4,000 m³ Liquid Storage Tank in Phase 2, at any one time.
- (4) The Owner is approved to store at any one time the in-process Organic Waste at the Site as follows:
- a. no more than 7,870 m³ of in-process Organic Waste shall be stored in each of two (2) Hybrid Anaerobic Digestion Vessels;
 - b. further to the Condition 4.5(4)a., the following storage limits apply:
 - i. no more than 1,430 m³ of in-process (hydrolysis) Organic Waste shall be stored in each of the two (2) Hydrolyzers, at any one time;
 - ii. no more than 6,050 m³ of in-process (Anaerobic Digestion) Organic Waste shall be stored in each of the two (2) Anaerobic Digesters, at any one time;
 - iii. no more than 390 m³ of in-process (pasteurization) Organic Waste in each of the two (2) Pasteurizers, at any one time.
- (5) The Owner is approved to store at any one time the following maximum amount of the Residual

Waste from the pre-processing Separators and the Sedi Tank:

- a. the amount contained within one (1)-38 m³ (50 cubic yards) compactor bin.

4.6 Solid Organic Waste Storage

- (1) In The Owner shall ensure that,
 - a. the solid Organic Waste temporarily stored on the Broadcast Floor is transferred for pre-processing by the end of the working day; and
 - b. the solid Organic Waste pre-processing is scheduled so that the oldest or the most odorous Organic Waste is processed first.
- (2) The Broadcast Floor shall be sloped towards the drain trench to drain any leachate from the Organic Waste or the run-off from the floor cleaning activities, as set out in the supporting documentation listed in the attached Schedule 1.
- (3) Only dry, non-putrescible IC&I Organic Waste are approved to be stored in the Dry Storage Area and in the three (3) outdoor Starch Mix Silos.
- (4) The three (3) Starch Mix Siloss shall be equipped with dust pollution control equipment as approved in the Air/Noise Approval.

4.7 Liquid Organic Waste Storage

- (1) The Owner is approved to store liquid Organic Waste as follows:
 - a. the Owner shall ensure that sufficient storage capacity is available in the storage/processing tanks prior to loading of the liquids into the tanks;
 - b. all storage and processing tanks shall be equipped with a liquid level monitoring device;
 - c. the liquid levels in the liquid Waste storage/processing tanks shall be monitored and controlled on a continuous basis to ensure that the design storage capacity available within the tanks is not exceeded;
 - d. the high-level alarms shall be operational at all times;
 - e. a provision for an auditory alarm at the Site and a remote alarm to the dedicated Trained Personnel, when the high level setpoint in all storage/processing tanks is reached, shall be provided and be in place prior to the first receipt of the Organic Waste at the Site; and
 - f. should the high level setpoint in any storage/processing tank be reached, an auditory alarm at

the Site and a remote alarm to the dedicated Trained Personnel shall be triggered.

- (2) The Hybrid Anaerobic Digestion Vessels, the Starch Mix Tank, the 1,000 m³-Liquid Liquid Storage Tank and the 4,000 m³-Liquid Liquid Storage Tank shall be constructed and operated within a secondary containment system as set out in the supporting documentation listed in the attached Schedule 1.
- (3) The outdoor loading/unloading areas to transfer of liquids into and from the storage/processing tanks or vessels shall be constructed as set out in the supporting documentation listed in the attached Schedule 1.
- (4) The Owner shall ensure that a drip tray is placed under cam-lock connection when the liquids are being unloaded from or loaded into the tanker trucks.
- (5) The Owner shall ensure that one (1)-1,000 m³ partially below grade level, Liquid Storage Tank is equipped and used with a fully functional activated carbon filter as approved in the Air/Noise Approval.
- (6) The Owner shall ensure that one (1)-4,000 m³ partially below grade level, Liquid Storage Tank is equipped and used with a fully functional activated carbon filter as approved in the Air/Noise Approval.
- (7) The Clean-Out Material shall be stored separately from any other waste until it is characterized and ready for transfer off-Site in accordance with this Approval.

4.8 Storage of on-Site Generated Organic Waste

- (1) Solid putrescible waste generated through activities not relating to the handling and processing of the approved waste at the Site (ie. office, lunch room, etc.) shall be;
 - a. handled in a manner that does not create an Adverse Effect and in accordance with the requirements of Regulation 347; and
 - b. may be processed at the Site.

4.9 Solid Organic Waste Pre-Processing

- (1) All pre-treatment of solid Organic Waste shall be carried out within the confines of the Reception Building and as set out in the supporting documentation, unless otherwise required in this Approval.
- (2) The Owner shall ensure that effective local capture of odour emissions (source extraction) is in place at all times when the pre-treatment of solid Organic Waste is being carried out.
- (3) The Owner shall ensure that all odours generated by the pre-treatment of solid Organic Waste

area are discharged into the air pollution control equipment as approved in the Air/Noise Approval.

4.10 Hydrolyzers Operation

- (1) The Owner is approved to operate,
 - a. one (1)-1,430 m³ Hydrolyzer in Phase 1; and
 - b. two (2)-1,430 m³, each, Hydrolyzers in Phase 2.
- (2) Treatment of the Organic Waste in the Hydrolyzer(s) shall be carried out in the mesophilic operation temperature range of 38 °C to 42 °C, with the minimum average operating temperature of 40 °C, as proposed in the supporting documentation listed in the attached Schedule 1, at all times.
- (3) The Owner shall ensure that a minimum hydraulic retention time of the Organic Waste in each Hydrolyzer is at least five (5) days, as proposed in the supporting documentation listed in the attached Schedule 1, at all times.
- (4) Hydrolyzer(s) shall be equipped with a level sensor.
- (5) The liquid level, temperature and duration of the processing in the Hydrolyzer(s) shall be monitored to verify compliance with Conditions 4.10(1) through 4.10(3).
- (6) The Hydrolyzer(s) shall be equipped with a sampling port or other means by which a sample can be taken that represents the Organic Waste entering the Hydrolyzer to allow for collection of samples of the Organic Waste for the testing required under this Approval.
- (7) The Owner shall ensure that headspace of the Hydrolyzer(s) is exhausted into the headspace of the Biogas Management System, as proposed in the supporting documentation listed in the attached Schedule 1.

4.11 Anaerobic Digesters Operation

- (1) The Owner is approved to operate,
 - a. one (1)-6,050 m³ Anaerobic Digester in Phase 1; and
 - b. two (2)- 6,050 m³, each, Anaerobic Digesters in Phase 2.
- (2) The Anaerobic Digester(s) shall be insulated, heated and mechanically mixed.
- (3) Treatment of the Organic Waste in the Anaerobic Digester(s) shall be carried out in the

mesophilic temperature range of 38°C to 42°C, with the operating temperature target of 40°C, as proposed in the supporting documentation listed in the attached Schedule 1, at all times.

- (4) The Owner shall ensure that a minimum hydraulic retention time of the Organic Waste in each Anaerobic Digester is at least twenty (20) days for Anaerobic Digestion under mesophilic conditions as proposed in the supporting documentation listed in the attached Schedule 1, at all times.
- (5) The liquid level, temperature and duration of the processing in the Anaerobic Digester(s) shall be monitored to verify compliance with Conditions 4.11(3) and 4.11(4).
- (6) The Owner may add a small amount of air into the freeboard of the Anaerobic Digester(s), as needed, for the purpose of hydrogen sulphide from the Biogas removal can in accordance with the supporting documentation listed in the attached Schedule 1.
- (7) The Owner may add ferric compound addition into the Anaerobic Digester(s), as needed, for the purpose of hydrogen sulphide removal in accordance with the supporting documentation listed in the attached Schedule 1.
- (8) The Owner shall ensure that headspace of the Anaerobic Digester(s) is exhausted into the headspace of the Biogas Management System, as proposed in the supporting documentation listed in the attached Schedule 1.

4.12 Pasteurizers Operation

- (1) The Owner shall ensure that all Digestate is pasteurized (heat-treated) to inactivate pathogens prior to its transfer from the Site for land application as set out in this Approval.
- (2) All Digestate shall be pasteurized in Pasteurizer(s), in accordance with this Approval.
- (3) The Owner is approved to operate,
 - a. one (1)- 390 m³ Pasteurizer in Phase 1; and
 - b. two (2)- 390 m³, each, Pasteurizers in Phase 2.
- (4) The requirements for pasteurization of Digestate are as follows:
 - a. pasteurization of the liquid Digestate shall be carried out in two (2) insulated and heated Pasteurizer(s) and associated tubing;
 - b. the Pasteurizer(s) shall be located outdoors and be constructed partially above grade as proposed in the supporting documentation listed in the attached Schedule 1;

- c. all liquid Anaerobic Digestion Output transferred from Anaerobic Digester(s) into the Pasteurizer(s) shall have a dry matter content of less than 18% and have a slump of more than 150 millimetres using the Slump Test;
 - d. the Owner shall ensure that pasteurization in the Pasteurizer(s) is undertaken at a minimum temperature of 50°C for a minimum of twenty (20) hours to ensure the complete inactivation of pathogens in the liquid Anaerobic Digestion Output as set out in the supporting documentation listed in the attached Schedule 1;
 - e. the Owner shall ensure that all Anaerobic Digestion Output is pasteurized to inactivate pathogens as required in this Approval;
 - f. the temperature of pasteurization in the Pasteurizers shall be monitored with a minimum of seven (7) thermocouples installed separately in each baffle, as set out in the supporting documentation listed in the attached Schedule 1, to verify compliance with Condition 4.12(4)d.; and
 - g. monitoring results of the time and temperature of the pasteurization shall be available in a graphical format to demonstrate compliance with the pasteurization requirements in Condition 4.12(4)d.
- (5) A provision for an auditory alarm at the Site and a remote alarm to the dedicated Trained Personnel, when required pasteurization temperature is not being achieved, shall be provided and be in place prior to the first receipt of the Organic Waste at the Site.
- (6) Should the pasteurization temperature monitoring show an excursion from the required setpoint, an auditory alarm at the Site and a remote alarm to the dedicated Trained Personnel shall be triggered.
- (7) The Owner shall ensure that headspace of the Pasteurizer(s) is exhausted into the headspace of the Biogas Management System, as proposed in the supporting documentation listed in the attached Schedule 1.
- (8) The Pasteurizer(s) shall be equipped with sampling ports or other means by which a sample can be taken that represents the contents of the Digestate from the Pasteurizer(s) being transferred into a tanker for hauling off-Site, to allow for collection of samples of the Digestate for the testing required under this Approval.
- (9) If at any one time, the Owner is not able to operate the Pasteurizer(s) in compliance with the time/temperature pasteurization operational criteria set out in Condition 4.12(4)d. and/or the pathogen limits set out in Condition 6.2(1)b., the Owner shall,
- a. cease transfer of the Digestate as a nutrient for agricultural land application; and
 - b. transfer the Digestate to an approved waste disposal site for further processing that ensures

pasteurization in a fully mixed pasteurizer operating in compliance with operational criteria set out in Condition 4.12(4)d. and/or the pathogen limits set out in Condition 6.2(1)b or for Final Disposal.

4.13 Biogas Management

- (1) The Hybrid Anaerobic Digestion Vessel(s) shall be covered with a double membrane cover with the inner membrane having permeability of less than 500 cm³/m²/day/bar at 23°C.
- (2) The air in the space between the double membrane shall be managed as approved in the Air/Noise Approval.
- (3) As proposed in the supporting documentation listed in the attached Schedule 1, the Biogas from the headspace of Hybrid Anaerobic Digestion Vessel(s) shall be contained and exhausted to,
 - a. the Biogas Management System to be treated to meet the requirements for the Renewable Natural Gas; or
 - b. the Biogas Flare for combustion.
- (4) Any treated Biogas which does not meet the required Renewable Natural Gas quality criteria shall be transferred back to the Hybrid Anaerobic Digester Vessel(s), re-processed in the Biogas Management System or flared.
- (5) The Owner shall maintain the Biogas Flare as a fully functional stand-by system, at all times.
- (6) When there is a process upset and/or when the Biogas Management System is inoperable or producing treated Biogas that is not suitable for injection into the pipeline, the Biogas Flare shall be utilized to combust the Biogas if it cannot be transferred back to the Hybrid Anaerobic Digester Vessel(s).
- (7) The Owner shall ensure that the Biogas Flare is designed and operated to comply, at all times, with a destruction efficiency of at least 98% or as approved in the Air/Noise Approval.
- (8) Condensate from Biogas Management System shall be pumped directly into the Hydrolyzer(s) as proposed in the supporting documentation listed in the attached Schedule 1.
- (9) The Owner shall electronically monitor the over/under pressure relief valves on the Hybrid Anaerobic Digestion Vessel(s) to ensure that if they are open, it is recorded and the Owner is notified. Should any unintentional raw (untreated) Biogas be released from the over/under pressure relief valves to the atmosphere, regardless of quantity, the Owner shall immediately notify the Ministry, in writing.

4.14 Liquid Digestate Handling

- (1) Prior to its transfer off-Site, the pasteurized liquid Digestate shall be sampled for testing for pathogens as required in this Approval.
- (2) The pasteurized liquid Digestate shall be loaded into the transfer vehicles via a fixed quick-connect in the tanker truck loading area.
- (3) During the Pasteurization Verification Study duration, the Owner shall ensure that, the liquid Digestate load that has been sampled to verify compliance with the pasteurization requirements in this Approval, is stored separately from all other Digestate or materials, until compliance is verified.
- (4) If at any time after completion of the Pasteurization Verification Study, the compliance testing shows non-compliance with the Digestate quality criteria, the Owner shall resume isolating Digestate from all other Digestate or materials, until compliance is re-verified in accordance with this Approval.
- (5) When the Site is producing Digestate for the end-use as a NASM, six (6) months prior to receiving Organic Waste in Phase 1 and in Phase 2, the Owner shall submit to the District Manager, copies of agreements for the transfer and storage of the Digestate off-Site, which are signed by the owners of the off-Site storage locations and include the owner's total Digestate storage volume that is constructed, readily-available and designated strictly for the Site's Digestate for the minimum storage duration of 240 days.
- (6) When the Site is producing Digestate for the end-use as a Fertilizer, six (6) months prior to receiving Organic Waste in Phase 1 and in Phase 2, the Owner shall submit to the District Manager, copies of agreements for the transfer and storage of the Digestate off-Site, which are signed by the owners of the off-Site storage locations and include the owner's total Digestate storage volume that is constructed, readily-available and designated strictly for the Site's Digestate for the minimum storage duration required to comply with the Fertilizer label land application rates.

4.15 Residual Waste Management

- (1) Storage of the solid Residual Waste from pre-processing of the Organic Waste at the Site is subject to the following limitations:
 - a. solid Residual Waste may be temporarily stored in the Compactor located outdoors;
 - b. the Compactor shall be leak-proof to prevent escape of the fugitive odour emissions, at all times;
 - c. the outdoor portion of the Residual Waste conveyor shall be sealed to prevent escape of the fugitive odour emissions, at all times;
 - d. the seal between the Organics Processing Building and the Residual Waste conveyor shall not

have gaps to prevent escape of the fugitive odour emissions, at all times; and

- e. the Residual Waste shall be transferred from the Site to an approved waste disposal site as soon as its transfer trailer is filled to its holding capacity.

4.16 Process Wastewater Management

- (1) The Owner shall ensure that all wastewater, including the run-off from truck washing generated within the Reception Building, is:
 - a. contained within the leak-proof collection and storage systems, at all times;
 - b. collected in the sufficiently designed storage; and
 - c. collected for treatment approved under this Approval.
- (2) The Owner shall regularly empty, clean and disinfect if necessary, all sumps or wastewater storage/holding areas that are used to contain and collect the wastewater generated within the Reception Building.
- (3) The leachate from the Broadcast Floor and the wash water from the Broadcast Floor washing or the truck washing area in the Receiving Area shall be drained into the 40 m³-Surge Tank.
- (4) The liquids from the 40 m³-Surge Tank shall be transferred to the Hydrolyzer(s) or to a site approved by the Ministry to receive these liquids.

4.17 Ventilation

- (1) The Owner shall only use the Reception Building when the ventilation system is operational and maintains the approved air changes per hour and the negative pressure in the Reception Building, at all times, and in accordance with the supporting documentation listed in the attached Schedule 1 and as approved in the Air/Noise ECA.
- (2) The Owner shall ensure that air curtain at the bay doors of the Reception Building is operational at all times and is being operated whenever the bay doors are being opened.
- (3) The Owner shall ensure that effective local capture of odour emissions is in place, and is used at all times when the Organic Waste is received and processed in the Reception Building.
- (4) Only one bay door shall be opened at a time.
- (5) The bay doors shall be closed at all times except for when a truck is entering or exiting the Reception Building.
- (6) The Owner shall ensure that the roll-up door between the Receiving Area and the Broadcast

Floor is air-tight on both sides at all times.

- (7) The Owner shall ensure that the roll-up door between the Receiving Area and the Broadcast Floor is rolled down when the bay doors are being used to allow vehicles into the Reception Building.

4.18 Prohibitions

- (1) No outside Organic Waste storage other than that described above, is approved under this Approval.
- (2) No storage of incoming Organic Waste in its transportation vehicle is approved under this Approval.
- (3) Burning of any Wastes, other than the Biogas or the Renewable Natural Gas, as approved in this Approval, is prohibited at the Site.
- (4) Other uses of the Renewable Natural Gas produced at the Site, other than use at the Site or injection into the natural gas distribution infrastructure, are not approved under this Approval.
- (5) There shall be no public access to the Site for any waste drop off.

5.0 EQUIPMENT and SITE INSPECTIONS and MAINTENANCE

5.1 Inspections

- (1) Prior to the first receipt of the Organic Waste at the Site or as required by the District Manager, the Owner shall prepare a comprehensive written inspection program which includes procedures for inspections of all aspects of the Transfer Facility operations, including the following:
 - a. Organic Waste loading/unloading/storage/handling areas;
 - b. condition of all major pieces of the equipment;
 - c. condition of all instruments for monitoring required under this Approval;
 - d. security fence and property line;
 - e. presence of excessive fugitive dust emissions from the operation of the Site;
 - f. presence of the on and off-Site litter; and
 - g. presence of off-Site odours.
- (2) Prior to the first receipt of the Organic Waste at the Site or as required by the District Manager,

the Owner shall prepare a comprehensive written inspection program which includes procedures for inspections of all aspects of the Site's operations including the following:

- a. Waste, Digestate and any other waste loading/unloading/storage/handling areas;
 - b. condition of all major pieces of the equipment;
 - c. condition of all instruments for monitoring required under this Approval;
 - d. security fence and property line;
 - e. presence of excessive fugitive dust emissions from the operation of the Site;
 - f. presence of the on and off-Site litter; and
 - g. presence of off-Site odours.
- (3) The inspection program shall be up-dated, as required, shall be retained at the Site and be made available for inspection by a Provincial Officer, upon request.
- (4) The Owner shall ensure that the required Site inspections are undertaken daily by the Trained Personnel in accordance with the applicable inspection program to ensure that all Equipment and facilities at the Site are maintained in good working order at all times and that no off-Site impacts are occurring. Any deficiencies detected during these regular inspections must be promptly corrected.

5.2 Spare Parts

- (1) The Owner shall prepare a list of critical spare parts and update this list annually or more frequently, if necessary, to ensure that this list is maintained up-to-date. The list shall be retained at the Site and be made available for inspection by a Provincial Officer, upon request.
- (2) The Owner shall ensure that the critical spare parts are available at the Site at all times or be immediately available from an off-Site supplier.

5.3 Maintenance

- (1) The Owner shall develop and implement a preventative maintenance program for all on-Site equipment associated with the processing and managing of Wastes and control of fugitive odour and dust emissions.
- (2) The preventative maintenance program referred to in Condition 5.3(1) shall be maintained up-to-date, be retained at the Site and be available for inspection by a Provincial Officer, upon request.

6.0 WASTE QUALITY CRITERIA

- (1) For the purpose of demonstrating compliance with the quality criteria set out in Condition 6.0, the Owner shall use the most recent results of the required analysis or the most recent published data.

6.1 Incoming Organic Waste Quality Criteria

- (1) The incoming Organic Waste from each source, prior to pre-processing or after pre-processing if contamination needs to be removed, shall comply with the maximum metal concentrations set out in column 2 or 3, as applicable, of Table 1 of Schedule 5 of O. Regulation 267/03.
- (2) The incoming Organic Waste shall not be accepted at the Site if the analytical requirements listed in this Approval have not been fulfilled or if the analysis of the said Organic Waste as described in this Approval determines that the metal content in the said Organic Waste exceeds the metal content limits set out in Condition 6.1(1).

6.2 Digestate Quality Criteria

- (1) If the Digestate is managed as a material destined for land application on agricultural land, or as a Fertilizer, the Digestate shall comply with the following requirements unless O. Regulation 267/03 requires otherwise for a NASM:
 - a. regulated metals shall not exceed the maximum concentrations set out in Table 1 or Table 2, as applicable, of Schedule 5 of O. Regulation 267/03;
 - b. pathogens shall not exceed the maximum pathogen levels set out in Table 2 of Schedule 6 of O. Regulation 267/03 for CP1 NASM, Table 3 of Schedule 6 of O. Regulation 267/03 for CP2 NASM or Table 5 of "Trade Memorandum T-4-93 - Safety standards for fertilizers and supplements" for Fertilizer, as applicable;
 - c. Foreign Matter shall not exceed 2% calculated on a dry basis;
 - d. plastics shall not exceed 0.5% calculated on a dry basis, and
 - e. there shall not be any particles of any material that will pass through a screen whose largest opening has an area of 2.5 cm².
- (2) The Digestate shall contain a minimum of 15% of total organic matter/weight of the solids.
- (3) If the Digestate is managed as a waste destined for land application on non-agricultural land;
 - a. the Digestate shall meet the quality criteria required by the conditions of the Environmental Compliance Approval for the site where it is to be land-applied; or

- b. in the absence of specific quality criteria requirements in the Environmental Compliance Approval for the site where the Digestate is to be land-applied, it shall meet the requirements set out in Condition 6.2(1) of this Approval.

6.3 Residual Waste

- (1) Any Residual Waste, including the Clean-Out Material to be transferred for further processing or Final Disposal shall meet the quality criteria required by the conditions of the Environmental Compliance Approval for the site where it is to be transferred to.

6.4 Renewable Natural Gas Quality Criteria

- (1) Renewable Natural Gas shall comply with the applicable criteria required by the owner/operator of the natural gas distribution infrastructure for its intended injection into the said natural gas distribution infrastructure.

7.0 TESTING and MONITORING

7.1 Sampling and Testing Methods

- (1) The collection and analysis of samples of the incoming Organic Wastes and of the Digestate shall be performed in accordance with the Sampling and Analysis Protocol.
- (2) Analysis of samples of the incoming Organic Wastes and of the Digestate shall be performed by:
 - a. a laboratory that is accredited by the Ministry of Agriculture, Food and Rural Affairs for that purpose; or
 - b. a laboratory that is accredited in accordance with the International Standard ISO/IEC 17025 - General Requirement for the Competence of Testing and Calibration Laboratories, dated December 15, 1999, as amended from time to time.
- (3) The Owner shall ensure a copy of the analysis sets out the metal concentration in each Organic Waste in:
 - a. milligrams of metal per kilogram of total solids, dry weight, in case of the analysis of metals in materials that have a concentration of total solids of 10,000 milligrams or more per litre; and
 - b. milligrams of metal per litre, in the case of the analysis of regulated metals in materials that have a concentration of total solids of less than 10,000 milligrams per litre.

7.2 Characterization of Incoming Organic Waste

- (1) The Owner shall ensure that prior to its first acceptance of a given new incoming Organic Waste,

the incoming Organic Waste is characterized for metals during the 14-day period preceding its first-time receipt at the Site.

- (2) If the Owner relies on the published data for the well-studied/characterized incoming Organic Waste, the latest published information shall be used to confirm that the characteristics of the incoming Organic Waste to be received at the Site are in compliance with the incoming Organic Waste metals quality criteria required under this Approval.
- (3) If the published data is not available or used to confirm compliance of the incoming Organic Waste with the metal quality criteria from this Approval, the Owner shall ensure that analytical data from sampling and testing of the incoming Organic Waste is used to confirm compliance with the incoming Organic Waste metal quality criteria required under this Approval.
- (4) When sampling and testing of the incoming Organic Waste from Condition 7.2(3) is required, the Owner shall ensure that,
 - a. composite samples are collected as follows:
 - i. for liquids, at least 1 composite sample composed of no less than 5 sub-samples is collected, and
 - ii. for solids, at least 1 composite sample composed of no less than 10 sub-samples is collected;
 - b. following initial sampling and testing of the Organic Waste, subsequent sampling and metal content analysis is conducted for every 1,000 m³ of the given Organic Waste or once a year, whichever comes first, provided the said Organic Waste is of the same type and is from the same source; and
 - c. if after the first twelve (12) months of sampling and analysis the results are consistent and continuously below the prescribed limits, sampling and analysis is conducted for the given Organic Waste once a year or following any process changes, operational issues or other factors that may affect the quality of the said Organic Waste from the source.
- (5) The Owner shall ensure that each sample of the incoming Organic Waste has been analysed for metals listed in column 1 of Table 1 of Schedule 5 of O. Regulation 267/03, in accordance with the methods and sampling frequencies specified in this Approval.
- (6) If the initial or the subsequent testing determine that the concentration of any metal in an incoming Organic Waste exceeds the maximum metal concentrations set out in Condition 6.1, the Owner shall reject the receipt of that Organic Waste.
- (7) In order to resume accepting a given Organic Waste following previous rejection, the Owner shall ensure that the analytical requirements listed in this Approval have been fulfilled and that two (2) independent composite samples of the said Organic Waste generate analytical results which, separately and consecutively, do not exceed the metal content limits set out in Condition

6.1.

- (8) When sampling and re-testing of the incoming Organic Waste from Condition 7.2(7) is required, the Owner shall ensure that the composite samples are collected as follows:
- a. for liquids, at least 1 composite sample composed of no less than 5 sub-samples is collected, and
 - b. for solids, at least 1 composite sample composed of no less than 10 sub-samples is collected.
- (9) Should results of testing of the incoming Organic Waste for metals fail to meet the quality criteria specified in this Approval, the said Organic Waste shall be handled in accordance with the Contingency and Emergency Response Plan.

7.3 Testing of Digestate - Pasteurization Verification Study

- (1) From the date when the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel has been operational for one hydraulic retention time cycle at operational temperatures to the end of four (4) months afterwards, the Owner shall collect samples of the Digestate from the Pasteurizer outlet as follows:
- a. every two weeks, one sample shall be collected and tested for:
 - i. Total Solids content (%);
 - ii. Faecal coliforms;
 - iii. E.coli; and
 - iv. Salmonella;
 - b. once per month, one sample shall be collected and tested for:
 - i. Total Solids content (%);
 - ii. Giardia; and
 - iii. Cryptosporidium.
- (2) For a CP1 NASM, if the results from the twelve (12) consecutive sampling events from Condition 7.3(1)a. and four (4) consecutive sampling events from Condition 7.3(1)b. are all less than the maximum acceptable levels of organisms listed in Table 1 of Schedule 6 of O. Regulation 267/03, the Digestate testing set out under Condition 7.3(1) can be changed to the requirements in Condition 7.4.
- (3) For a CP2 NASM, if the results from twelve (12) consecutive sampling events from Condition 7.3(1)a. are all less than the maximum acceptable levels of organisms listed in Table 3 of Schedule 6 of O. Regulation 267/03, the Digestate testing set out under Condition 7.3(1)a. changed to the requirements in Condition 7.4.
- (4) For a Fertilizer, if the results from twelve (12) consecutive sampling events from Condition 7.3(1)a. are all less than the maximum acceptable levels of organisms listed in Table 5 of "Trade

Memorandum T-4-93 - Safety standards for fertilizers and supplements", the Digestate testing can be changed as required by the CFIA.

- (5) Within thirty (30) days of completing the Pasteurization Verification Study, the Owner shall submit a report to the District Manager and the Director, providing sampling protocols and analytical methods details and summarizing the testing results and the pasteurization operating details (time, temperature, etc.), and the conclusions of the Study.
- (6) If any of the testing results during the Pasteurization Verification Study show that the levels of pathogens are greater than the maximum acceptable levels of organisms listed in Table 5 of "Trade Memorandum T-4-93 - Safety standards for fertilizers and supplements" or the CP1 NASM criteria or CP2 NASM criteria, the Owner shall handle the Digestate in accordance with the Contingency Measures and Emergency Situation Response Plan required by Condition 12.0.

7.4 Testing of Digestate - Foreign Matter, Plastics, Metals and Pathogens

- (1) If the Digestate is managed as a NASM destined for land application on agricultural land or as a Fertilizer, the Owner shall:
 - a. collect one sample per month from the outlet of each Pasteurizer and analyze the samples for Foreign Matter, Plastics and regulated metals listed in Table 2 of Schedule 5 of O. Regulation 267/03.
- (2) If the Digestate is managed as a NASM destined for land application on agricultural land or managed as a Fertilizer, after the Pasteurization Verification Study, the Owner shall collect one sample every month from the outlet of the Pasteurizer, and analyze each of the samples for:
 - a. Total Solids content (%);
 - b. Faecal coliforms;
 - c. E.coli; and
 - d. Salmonella.
- (3) Notwithstanding provisions of Condition 7.4(2), upon a written request from the District Manager, the Owner shall sample and test the Digestate for pathogens including the organisms listed in Table 1 of Schedule 6 of O. Regulation 267/03.

7.5 Testing of Clean-Out Material

- (1) The Owner shall test the Clean-Out Material as required by the receiving site owner.

7.6 Pasteurization/Anaerobic Digestion Monitoring

- (1) The temperature of pasteurization in the Pasteurizer(s) shall be continuously monitored and recorded.

- (2) The liquid level and the temperature of the processing in the Digester(s) shall be continuously monitored and recorded.

7.7 Biogas/Renewable Natural Gas Monitoring

- (1) The Biogas and the Renewable Natural Gas production rate and quality shall be monitored in accordance with the proposal set out in the supporting documentation listed in the attached Schedule 1.

8.0 END-USE of OUTPUTS

8.1 End-use of Digestate

- (1) All Digestate shipped from the Site as a Fertilizer must be accompanied by a Product Label that has been approved by the CFIA.
- (2) Subject to the CFIA's Fertilizer registration requirements, prior to each initial shipment for each Fertilizer label, the Owner shall provide to the Director and the District Manager a notification from the CFIA that the Digestate generated at the Site has been assessed and approved for use as a Fertilizer under the Fertilizers Act.
- (3) In addition to the notification required by Condition 8.1(2), above, the Owner shall provide to the Director and District Manager the following information:
 - a. a copy of the complete application package submitted to the CFIA in support of the request to manufacture the Fertilizer;
 - b. the specific requirements of the CFIA that must be met for the Digestate to be considered as a Fertilizer including all process monitoring, analytical, and quality assurance / quality control requirements;
 - c. a statement whether the label is a new label or if it has been re-issued as a result of a change to the incoming Organic Waste type or quality or a process change triggering a requirement for a new Fertilizer label as required by the CFIA; and
 - d. a copy of the approved Product Label.
- (4) If the Digestate is not offered for sale or is not sold as a Fertilizer in accordance with the Fertilizers Act, but the Digestate is to be land-applied to agricultural land, the Digestate shall be managed in accordance with the requirements of the NMA.
- (5) If the Digestate is not managed as a Fertilizer or in accordance with the requirements of the NMA, it is considered a processed organic waste, as defined in Regulation 347, and it shall be managed as follows:

- a. Digestate managed as waste shall only be in accordance with the requirements of the EPA and the OWRA and any other relevant Ministry legislation;
 - b. Digestate managed as waste shall only be removed from the Site by a hauler approved by the Ministry to transport such waste, as required;
- (6) Digestate managed as waste shall be transferred for further processing or final disposal to a Ministry-approved site or a site approved to accept such waste by an equivalent jurisdiction.
- (7) The Owner shall ensure that the Digestate managed under the NMA is always destined to be mixed with manure prior to land application as a nutrient as set out in the supporting documentation listed in the attached Schedule 1.

8.2 End-use of Biogas/Renewable Natural Gas

- (1) Treated Biogas is considered to be Renewable Natural Gas when it meets the requirements for injection into the natural gas distribution infrastructure.
- (2) Treated Biogas which does not meet the required Renewable Natural Gas quality criteria shall be transferred back to the Hybrid Anaerobic Digester Vessel(s), re-processed in the Biogas Management System or transferred for flaring.

9.0 NUISANCE IMPACT CONTROL and HOUSEKEEPING

9.1 Trucks and Traffic

- (1) The Owner shall visually inspect the vehicles that have delivered the Organic Waste to the Site for evidence of leaking or dripping waste. The Owner of the vehicles that leak shall be given a written notice of the presence of the leak. The notice shall include the vehicle owner's name, the vehicle Environmental Compliance Approval number, if applicable, the type of Organic Waste delivered to the Site and the date of the delivery. A copy of the notice shall be retained at the Site and it shall be provided to the Ministry staff upon request.
- (2) The Owner shall ensure that the exterior of all vehicles delivering the Organic Waste to the Site is washed prior to their departure from the Site, as appropriate.
- (3) The Owner shall ensure that there is no queuing or parking of vehicles that are waiting to enter the Site on any roadway that is not a distinct part of the Site.
- (4) The Owner shall ensure that the vehicles transporting waste to and from the Site use the designated on-Site traffic routes.
- (5) The Owner shall ensure that all new drivers of vehicles transporting waste to and from the Site are instructed/trained on the acceptable on-Site traffic routes.

- (6) The Owner shall ensure that all vehicles hauling waste are adequately covered to prevent fugitive odour or dust emissions during transport.
- (7) All waste must be transported to and from the Site in accordance with the EPA and Regulation 347 and in vehicles that have been approved by the Ministry or registered on the EASR, as required.
- (8) The Owner shall ensure that all drivers of vehicles making deliveries and removing waste from to the Site are made aware of the protocols to manage opening and closing of the doors in the buildings at the Site.
- (9) The Owner shall determine the Site access truck traffic routes and shall ensure that all drivers of vehicles making deliveries and removing waste from to the Site are made aware of the traffic routes restrictions and requirements.

9.2 Litter

- (1) The Owner shall prevent the escape of litter from the Site and pick up litter around the Site on a daily basis, or more frequently if necessary.

9.3 Vectors, Vermin and Wildlife

- (1) The Owner shall:
 - a. implement necessary housekeeping procedures to eliminate sources of attraction for vermin, vectors and wildlife; and
 - b. if necessary, hire a qualified, licensed pest control professional to design and implement a pest control plan for the Site.

9.4 Reception Building Testing

- (1) Prior to the receipt of the Organic Waste at the Site, the Owner shall test the Reception Building envelope to identify any unplanned leakage points in the Reception Building.
- (2) The testing shall be carried out by a licensed structural engineer in accordance with the test protocol as required in the Air/Noise Approval.
- (3) The testing shall be repeated as directed or agreed by the District Manager.

9.5 Fugitive Emissions to the Atmosphere

- (1) The Owner shall ensure that the floor of the Reception Building and any Organic Waste temporary storage areas are cleaned regularly, including being washed down, as required.
- (2) The waste trucks shall be washed down in the wheel wash area in the Receiving Area, before

leaving the Reception Building.

- (3) The Owner shall install a roll-up door between the Receiving Area and the Broadcast Floor and keep this door rolled down unless waste needs to be transferred to the
- (4) The Owner shall regularly clean all equipment used to handle and process the Organic Waste at the Site, as required.
- (5) The Owner shall ensure that all on-site roads and operations/yard areas are regularly swept/wetted to prevent dust impacts off-Site.
- (6) The Owner shall electronically monitor the over/under pressure relief valves on the Anaerobic Digester(s) to ensure that if they are open, it is recorded and the Owner is notified. Should any unintentional raw (untreated) Biogas be released from the over/under pressure relief valves to the atmosphere, regardless of quantity, and leave the Site, the Owner shall immediately notify the Ministry in accordance with the requirements in Condition 13.0.
- (7) The Owner shall maintain the Biogas flare at the Site and combust off-specification Biogas in the instance of a process upset.

10.0 COMPLAINT MANAGEMENT

- (1) A designated representative of the Owner shall be available to receive public complaints caused by the operations at the Site twenty-four (24) hours per day, seven (7) days per week.
- (2) If at any time, the Owner receives any environmental complaints from the public regarding the operation of the Site, the Owner shall respond to these complaints according to the following procedures:
 - a. Step 1: Receipt of Complaint - The Owner shall record each complaint in a computerized tracking system. The information recorded shall include the following:
 - i. the name, address and the telephone number (or contact information) of the complainant, if known;
 - ii. the date and time of the complaint; and
 - iii. details of the complaint, including the description and duration of the incident.
 - b. Step 2: Investigation of Complaint - After the complaint has been received by the Owner and recorded in the tracking system, the Owner shall, immediately notify, either the District Manager by phone during office hours or the Ministry's Spills Action Centre at 1-800-268-6060 after office hours. The Owner shall immediately initiate investigation of the complaint. The investigation shall include, as a minimum, the following:

- i. determination of the activities undertaken in the Site at the time of the complaint;
 - ii. general meteorological conditions including, but not limited to the ambient temperature, approximate wind speed and its direction, sunny versus cloudy, inversion versus clear and windy, etc. at the time of the complaint;
 - iii. location of the person who submitted the complaint, if known, at the time of the incident; and
 - iv. determination if the complaint is attributed to activities being undertaken at the Site and if so, determination of all the possible cause(s) of the complaint;
- c. Step 3: Corrective Action - The Owner shall determine the remedial action(s) to address the cause(s) of the complaint and implement the remedial action(s) to eliminate the cause(s) of the complaint, as soon as practicably possible, and to prevent a similar occurrence in the future;
 - d. Step 4: Written Response - The Owner shall forward a formal reply to the complainant, if known and to the District Manager within one (1) week after the receipt of the complaint. The response shall include the results of the investigation of the complaint, the action(s) taken or planned to be taken to address the cause(s) of the complaint, and if follow-up response would be provided.
 - e. Step 5: Recording - All of the information collected and actions taken must be recorded in the tracking system.
- (3) If the District Manager deems the remedial measures taken as per Condition 10.0(2)c. to be unsuitable, insufficient or ineffective, the District Manager may direct the Owner, in writing, pursuant to the remedial order section (s.17) or the preventative measures order section (s.18) of the EPA to take further measures to address the noted failure, upset or malfunction, including but not limited to the following:
- a. reduction in the receipt of the waste;
 - b. cessation of the receipt of the waste;
 - c. removal and off-site disposal of waste; and
 - d. repairs or modifications to the equipment or processes at the Site, that may include the following actions:
 - i. the Owner may prohibit use of specific doors under some circumstances or atmospheric conditions;

- ii. the Owner may increase the magnitude of the negative pressure to be maintained in the Reception Building;
 - iii. the Owner may increase the number of air exchanges in the areas suspected of causing fugitive odour emissions escaping from the Reception Building; and
 - iv. the Owner may retrofit the design of the ventilation system within the Reception Building to provide a more effective local capture of the odours from the odour sources within the Reception Building; and
- e. further investigation of possible sources of fugitive air emissions from the Site as follows:
- i. the Owner shall develop of a plan, prepared by a Professional Engineer, for assessment of other possible sources of fugitive air emissions originating from the Organic Waste received and processed at the Site;
 - ii. the Owner shall conduct the assessment of other possible sources of fugitive air emissions, as directed or agreed by the District Manager as per the plan prepared in accordance with Paragraph 10(3)e.i. of this Approval;
 - iii. the Owner shall prepare and submit a report prepared by a Professional Engineer on the assessment of other possible sources of fugitive air emissions to the Director and the District Manager within two (2) months after completing the assessment of other possible sources of fugitive air emissions; and
 - iv. implement the recommendations identified in the assessment of other possible sources of fugitive air emissions report within two (2) months after completing the assessment of other possible sources of fugitive air emissions or as directed or agreed by the District Manager.

11.0 OPERATIONS MANUAL and STAFF TRAINING

11.0 Operations Manual

- (1) The Owner shall prepare an Operations Manual for use by the Site personnel. As a minimum, the Operations Manual shall contain the following:
- a. outline the responsibilities of Site personnel;
 - b. personnel training protocols;
 - c. waste receiving and screening procedures;
 - d. waste unloading, handling, storage and processing procedures;
 - e. process monitoring procedures;
 - f. sampling and testing procedures;
 - g. Site inspections, spill, fire, upset and leakage recording procedures;

- h. procedure for handling complaints as described in this Approval.
- (2) A copy of the Operations Manual shall be kept at the Site, must be accessible to personnel at all times and must be updated, as required.

11.2 Staff Training

- (1) All operators of the Site shall be trained with respect to the following:
- a. relevant air, noise, wastewater and waste management legislation, regulations and guidelines;
 - b. major environmental concerns pertaining to the waste to be handled at the Site;
 - c. occupational health and safety concerns pertaining to the processes and wastes to be handled at the Site;
 - d. management procedures including the use and operation of equipment for the processes and wastes to be handled at the Site;
 - e. records keeping procedures;
 - f. contingency plan and emergency response procedures;
 - g. specific written procedures for the control of adverse effects from the Site;
 - h. specific written procedures for refusal of unacceptable incoming Organic Waste loads; and
 - i. the requirements of this Approval.
- (2) The training of the operators of the Site shall also include the procedures contained in the Operations Manual.
- (3) The training of the operators of the Site shall be undertaken:
- a. upon commencing employment at the Site;
 - b. whenever procedures are updated.

12.0 CONTINGENCY MEASURES and EMERGENCY SITUATION RESPONSE PLAN

- (1) A minimum of three (3) months prior to the first receipt of the Organic Waste at the Site, the Owner shall prepare a Contingency Measures and Emergency Situation Response Plan. The Contingency Measures and Emergency Situation Response Plan shall be prepared in consultation with the District Manager, the local Municipality and the Fire Department. The Contingency Measures and Emergency Situation Response Plan, as a minimum, shall include the following information:
- a. emergency response procedures to be undertaken in the event of a spill, process upset, power failure, fire, explosion or any other emergency situation, including specific clean-up methods for wastes expected to be generated from the emergency situation;
 - b. odour abatement plan to propose the design and operation of the contingency measures necessary to alleviate impacts from odours emitted from the waste management activities at

the Site;

- c. dust abatement plan to propose the design and operation of the contingency measure to alleviate impacts from dust originating from the waste management and vehicular activities at the Site;
- d. trigger mechanism for implementation of the abatement plans required by b. and c, above;
- e. a list of equipment and clean up materials available for dealing with the emergency situations;
- f. notification protocol with names and telephone numbers of persons to be contacted, including persons responsible for the Site, the Ministry's District Office and Spills Action Centre, the local Fire Department, the local Municipality, the local Medical Officer of Health, and the Ministry of Labour, and the names and telephone numbers of waste management companies available for emergency response;
- g. procedures and actions to be taken should the incoming Organic Waste not meet the quality criteria specified by this Approval and requires removal from the Site as set out in this Approval;
- h. procedures and actions to be taken should the outgoing Residual Waste not meet the quality criteria set out in the receiving site's Environmental Compliance Approval;
- i. procedures and actions to be taken should the Digestate fail to meet the requirements under the NMA;
- j. procedures and actions to be taken should the Digestate fail to meet the requirements of a Fertilizer; and
- k. procedures and actions to be taken should the occurrence of the substantiated complaints require the Owner to suspend the Organic Waste processing activities at the Site.

- (2) An up-to-date version of the Contingency Measures and Emergency Situation Response Plan shall be kept at the Site at all times, in a central location available to all staff, and a copy shall be submitted to the District Manager, the local Municipality and the Fire Department, if requested.
- (3) The Contingency Measures and Emergency Situation Response Plan shall be reviewed on an annual basis and updated, if necessary. The revised version of the Contingency Measures and Emergency Situation Response Plan shall be submitted to the District Manager, the local Municipality and the Fire Department for comments and concurrence.

13.0 EMERGENCY SITUATIONS RESPONSE and REPORTING

- (1) The Owner shall immediately take all necessary measures, as outlined in the Contingency

Measures and Emergency Situation Response Plan, to handle the emergency situations occurring at the Site.

- (2) The Owner shall ensure that the equipment and materials outlined in the Contingency Measures and Emergency Situation Response Plan are immediately available at the Site at all times and are in a good state of repair and fully operational.
- (3) The Owner shall ensure that all Site personnel are fully trained in the use of the equipment and materials outlined in the Contingency Measures and Emergency Situation Response Plan, and in the procedures to be employed in the event of an emergency.
- (4) All Spills shall be immediately reported to the **Ministry's Spills Action Centre at 1-800-268-6060** and shall be recorded in the log book as to the nature and cause of the Spill, and the action taken for clean-up, correction and prevention of similar future occurrences.
- (5) Should a Spill occur at the Site, in addition to fulfilling the requirements from the EPA, the Owner shall submit to the District Manager a written report within three (3) calendar days outlining the nature of the Spill, remedial measure taken and the measures taken to prevent future occurrences at the Site.

14.0 RECORDS KEEPING and RETENTION

14.1 Daily Activities

- (1) The Owner shall maintain an on-site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. The record shall include, as a minimum, the following:
 - a. date of record;
 - b. quantity and type of the Organic Waste received at the Site, including the incoming Organic Waste characterization results, or published characterization data, as applicable;
 - c. quantity and type of waste processed at the Site, including the waste inputted into the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s);
 - d. quantity and type of waste present at the Site, including the Organic Waste in-storage and in-process;
 - e. amount of the Digestate shipped from the Site, its categorization and destination;
 - f. quantity of the Residual Waste shipped for final disposal, the name of the receiving site and its Environmental Compliance Approval number;

- g. quantity and type of any Rejected Waste rejected from the Site;
 - h. housekeeping activities, including litter collection, washing/cleaning activities, etc.
 - i. date and the quantity of Biogas generated at the Site;
 - j. date and the quantity of Renewable Natural Gas transferred from the Site to the natural gas distribution infrastructure; and
 - k. date and duration of the flare being used for Biogas flaring.
- (2) The Owner shall retain all records retaining to waste characterization required by this Approval for a minimum of five (5) years.

14.2 Emergency Situations

- (1) The Owner shall maintain an on-Site written or digital record of the emergency situations. The record shall include, as a minimum, the following:
- a. the type of an emergency situation;
 - b. description of how the emergency situation was handled;
 - c. the type and amount of material spilled, if applicable;
 - d. a description of how the material was cleaned up and stored, if generated; and
 - e. the location and time of final disposal, if applicable.

14.3 Inspections

- (1) The Owner shall maintain an on-Site written or digital record of inspections as required by this Approval. The record shall include, as a minimum, the following:
- a. the name and signature of person that conducted the inspection;
 - b. the date and time of the inspection;
 - c. the list of any deficiencies discovered;
 - d. the recommendations for remedial action; and
 - e. the date, time and description of actions taken.

14.4 Training

- (1) The Owner shall maintain an on-Site written or digital record of training as required by this Approval. The record shall include, as a minimum, the following:
 - a. date of training;
 - b. name and signature of person who has been trained; and
 - c. description of the training provided.

14.5 Sampling and Testing

- (1) The Owner shall establish and maintain a written or digital record of all sampling and testing activities at the Site. This record shall include, as a minimum, the following information:
 - a. waste sampled, sample collection locations and volume collected;
 - b. day and time of collection;
 - c. sample handling procedures;
 - d. parameters tested for and the resulting concentrations;
 - e. name of the laboratory facility conducting the testing; and
 - f. conclusions drawn with respect to the results of the monitoring and testing.

14.6 Monitoring

- (1) The Owner shall establish and maintain a written or digital record of all monitoring activities at the Site as required by this Approval.

14.7 Complaints Management

- (1) The Owner shall establish and maintain a written or digital record of complaints received and the responses made as required by this Approval.

14.8 Annual Report

- (1) By November 30th following the end of each operating year, the Owner shall prepare and submit to the District Manager an Annual Report summarizing the operation of the Site covering the previous calendar year. This Annual Report shall include, as a minimum, the following information:

- a. a monthly summary of the quality and the quantity of all incoming Organic Waste and outgoing Digestate, Residual Waste and Rejected Waste, including analytical data required to characterize the waste;
- b. material balance for each month documenting the amount of Organic Waste stored at the Site;
- c. a monthly summary of the quality and the quantity of the Digestate pumped to the Digestate Storage Tank;
- d. a monthly summary of the quality and the quantity of the Digestate shipped from the Site and its end-use designation (ie. Fertilizer or a non-exempted waste) and its final end-use destination (ie. agricultural or non-agricultural location) and address;
- e. annual amount of Biogas produced at the Site;
- f. annual amount of Renewable Natural Gas transferred from the Site to the natural gas distribution infrastructure;
- g. annual duration of the flare being used for Biogas flaring;
- h. any environmental and operational problems, that could negatively impact the environment, encountered during the operation of the Site or during Site inspections and any mitigative actions taken;
- i. any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operation and monitoring programs in this regard;
- j. a summary of any complaints received and the responses made;
- k. a summary of any emergency situations, including use of over/under pressure relief valves, that have occurred at the Site and how they were handled;
- l. an update on the amount of Financial Assurance which has been provided to the Director;
- m. a summary of all inspections and maintenance carried out at the Site;
- n. summary of the PCL activities, if the PLC has been active in the previous year;
- o. a written statement that the Site was in compliance with the Approval; and
- p. any other information the District Manager requires from time to time.

15.0 CLOSURE

- (1) The Owner shall submit, for approval by the Director, a written Closure Plan four (4) months prior to the permanent closure of the Site. This plan must include, as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work.
- (2) Within ten (10) days after closure of the Site, the Owner must notify the Director, in writing, that the Site is closed and that the Closure Plan has been implemented.

16.0 PUBLIC LIAISON COMMITTEE

- (1) Upon request from the District Manager, the Owner shall establish and maintain a Public Liaison Committee (PLC) for the Site.
- (2) The PLC shall serve as a forum for dissemination, consultation, review and exchange of information regarding the operation of the Site, including environmental monitoring, maintenance and complaint/public concerns resolution. In addition, the PLC will also be provided the opportunity to review and comment on any subsequent applications for new approvals or amendments to the existing approvals, under the EPA, for the Site.
- (3) The Owner shall invite representation from the following groups to participate on the PLC:
 - a. home owners and the businesses within 2,000 metres of the Site;
 - b. Sensitive Receptors within 2,000 metres of the Site;
 - c. any interested non-governmental organizations; and
 - d. any other interested person(s) or group(s).
- (4) If there is no interest from the groups listed in Condition 16.1(3) in establishing and participating in a new PLC or in participating in the existing PLC, the existing PLC may be suspended upon consent of the District Manager.
- (5) If the PLC is not established or is suspended, the Owner shall review the need for a PLC on an annual basis.

17.0 PUBLIC ACCESS to DOCUMENTATION

- (1) At all times, the Owner shall keep at the Site,
 - a. the documentation that describes the current operations of the Site; and
 - b. the documentation to be prepared and kept at the Site or to be prepared and submitted to the Ministry for review, as required by the Environmental Compliance Approvals for the Site.
- (2) The Owner shall create a website for the Site and shall post the documentation listed in Condition 17.0(1) on the website. The website shall be kept up-to date at all times.

- (3) During regular business hours, the Owner shall make the documents listed in Condition 17.0(1) available for inspection at the Site by any interested member of the public.
- (4) Any information disclosure to the public shall be in accordance with the provisions of the *Freedom of Information and Protection of Privacy Act*, R.S.O. 1990, C. F-31.

18.0 District Manager Notification

- (1) At least ninety (90) days prior to the planned commencement of Phase 2, the Owner shall notify the District Manager of the commencement date.

Schedule 1

This Schedule 1 forms part of this Environmental Compliance Approval for a Waste Disposal Site

1. Application for an Environmental Compliance Approval for a waste disposal site dated May 21, 2020 signed by Donald Duncan, H & D Properties Ltd., and the following attachments:
 - a. "Design and Op Report, dated May 26, 2020 and Design and Op Report Appendix A"
 - b. "Financial Assurance"
 - c. "First Nations Consultation"
 - d. "Incorporation Statement"
 - e. "Neighbour Notification"
 - f. "Zoning Confirmation"
 - g. "Environmental bill of Rights Registry Abstract dated May 20, 2020"
2. E-mail dated July 31, 2020 (10:15 a.m.) from Claire Allen, CHFourBiogas to Anna Liu, Ministry of the Environment, Conservation and Parks, including an attachment entitled "Ref 4226-BQTPB5 Response to Letter of Ack Waste.pdf"
3. E-mails dated July 30, 2021 (11:46 a.m.), August 5, 2021 (10:22 a.m.) and November 18, 2021 (10:30 a.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including the following supporting documentation entitled:
 - a. "Ref#507-BRTQTK_Waste Response to Questions_July 30 2021.docx"
 - b. "Q8 Tiger brochure.pdf"
 - c. "Q9 and Q13 seditank.pdf"
 - d. "Q15 and Q30.pdf"
 - e. "Q31.pdf"
 - f. "Q24 Quadrogen upgrader layout.pdf"
 - g. "Q25 Quandrogen Sample Description of Equipment.pdf"
 - h. "Q39 Xypex.pdf"
4. E-mail dated September 22, 2021 (2:53 p.m.) from Claire Allen, CHFourBiogas to Sandra Kinghorn, Dyno Nobel, with copy sent to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including an attachment entitled "Re Digestate Storage at Dyno Nobel Sept 21 2021.pdf"
5. E-mail dated November 10, 2021 (12:22 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including attachments entitled:
 - a. "21-005 H D Properties 1336 CR 2 Maitland TIS Oct 8-21 V5 QC.pdf"
 - b. "210333 - Stormwater Management Report [October 15, 2021].pdf"
 - c. "210333 - Civil-ESC (Erosion and Sediment Control Plan).pdf"
 - d. "210333 - Civil-GR (Site Grading Plan).pdf"
 - e. "210333 - Civil-DET (Details).pdf"
6. E-mail dated November 17, 2021 (1:42 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik,

Ministry of the Environment, Conservation and Parks, with proposal for the public meeting on December 7, 2021.

7. E-mail dated December 9, 2021 (3:23 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including an attachment entitled "Public Consultation Package.pdf"
8. Email dated January 11, 2022 (11:30 a.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, providing the design information on the proposed double membrane for the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessels.
9. Email dated February 4, 2022 (2:38 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including attachments entitled:
 - a. "Ref#5706-BRTQTK_Waste Response to Questions Feb 4 2022.pdf"
 - b. "Financial Assurance_Jan 30 2022.pdf"
 - c. "Q45 Spec Sheet Quadsorb.pdf"
 - d. "H&D Properties Drawings Feb 4 2022.pdf"
 - e. "Design and Op Report_Jan 26 2022.pdf"
10. E-mail dated February 15, 2022 (10:00 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including attachments entitled:
 - a. "18C05 - 01 - A2 - Hybrid AD Specification.r01.pdf"
 - b. "18C05 - 01 - DR1 - ORB Drain Layout.r01.pdf"
 - c. "18C05 - 01 - SP1 - Site Plan.r01.pdf"
 - d. "18C05 - 01 - SP3 - ORB Layout.r01.pdf"
 - e. "18C05 - 01 - X1 - Hybrid AD Heating.r01.pdf"
 - f. "18C05 - 01 - G3 - Mass Flow Diagram.r01.pdf"
 - g. "18C05 - 01 - OC1 - Odour Control Layout.pdf"
11. E-mail dated June 15, 2022 (11:08 a.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, with clarification that the proposal does not include use of a railway.
12. E-mail dated July 13, 2022 (9:50 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including an attachment entitled "Ref#5706-BRTQTK_Waste_NASM Pathogen Test Plan July 13 2022.pdf"
13. E-mail dated July 22, 2022 (5:47 a.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Park, including an attachment entitled "Ref#5706-BRTQTK_Waste Response to Questions July 2022.pdf"
14. E-mail dated January 17, 2023 (8:10 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Park, including an attachment entitled "2023-1-10"

HD Properties dr wds ECA_Jan 17 2023.pdf" including draft ECA comments and additional clarifications of the proposal.

15. E-mail dated March 10, 2023 (9:26 a.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, including draft ECA comments and additional clarifications of the proposal and including attachments entitled:
 - a. "2023-2-24 HD wds ECA Jan 10 vs (+Jan 17 CA)(+Feb 24 MW)(+Mar 10 CA).docx"
 - b. "HD dr ECA Clarification Letter March 8, 2023.pdf"
 - c. "18C05 - A2 - Hybrid AD Specification.r01.pdf"
 - d. "18C05 - X1 - Hybrid AD Heating.r01.pdf"
 - e. "Financial Assurance Calculations March 8 2023.pdf"
16. E-mail dated March 27, 2023 (12:15 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, regarding the schedule for the submission of the FA for Phases 1 and 2.
17. E-mail dated March 30, 2023 (9:48 p.m.) from Claire Allen, CHFourBiogas to Margaret Wojcik, Ministry of the Environment, Conservation and Parks, clarifying the overall holding volume of the Hybrid Hydrolyzer/Anaerobic Digester/Pasteurizer Vessel(s) and including an attachment entitled "18C05 - A2 - Hybrid AD Specification.r01.pdf"

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

GENERAL

Conditions 1.1, 1.4, 1.5, 1.6 and 1.9 are included to clarify the legal rights and responsibilities of the Owner.

Conditions 1.2 and 1.3 are included to ensure that the Site is build and operated in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.

Conditions 1.7(1) and 1.7(2) are included to ensure that the Site is operated under the corporate names which appear on the application form submitted for this approval and to ensure that the Director is informed of any changes. Condition 1.7(3) is included to restrict potential transfer or encumbrance of the Site without the approval of the Director and to ensure that any transfer of encumbrance can be made only on the basis that it will not endanger compliance with this Approval.

Condition 1.8 is included to ensure that the appropriate Ministry staff has ready access to the operations of the Site which are approved under this Approval. The Condition is supplementary to the powers of entry afforded a Provincial Officer pursuant to the EPA, the OWRA, the PA, the NMA and the SDWA.

Condition 1.10 is included to ensure that sufficient funds are available to the Ministry to clean up the Site in the event that the Owner is unable or unwilling to do so.

Condition 1.11 is included, pursuant to subsection 197(1) of the EPA, to provide that any persons having an interest in the Site are aware that the land has been approved and used for the purposes of waste disposal.

SIGNS and SITE SECURITY

Condition 2.0 is included to ensure that the Site's users, operators and the public are fully aware of important information and restrictions related to the operation of the Site. Condition 2.2 is also included to ensure that the Site is sufficiently secured, supervised and operated by properly Trained Personnel and to ensure controlled access and integrity of the Site by preventing unauthorized access when the Site is closed and no Site personnel is on duty.

SERVICE AREA, APPROVED WASTE TYPES and RATES

Condition 3.1 is included to specify the approved Waste types and the service area from which the Waste may be accepted at the Site based on the Owner's application and supporting documentation.

Condition 3.1 is included to prohibit some waste types from being processed at the Site since they are inappropriate to be included in the Anaerobic Digestion process or due to concerns about the quality of the Digestate.

Condition 3.3 is included to specify the approved Waste receipt rate based on the Owner's application and supporting documentation.

SITE OPERATIONS

Condition 4.1 is included to specify the hours of operation for the Site to ensure that the hours of Site's operation do not result in an Adverse Effect or a hazard to the natural environment or any person.

Condition 4.2 is included to set out the waste management activities approved under this Approval at the Site as proposed in the application and supporting documentation submitted by the Owner, and as considered by the Director.

Condition 4.3 is included to ensure that only the approved the Waste types are accepted and handled/processed at the Site.

Condition 4.4 is included to ensure that the Rejected Waste storage and management are undertaken in a way which does not result in an Adverse Effect or a hazard to the environment or any person and are in accordance with the application and supporting documentation submitted

by the Owner, and not in a manner which the Director has not been asked to consider.

Condition 4.5 is included to specify the approved waste storage limits and the areas that the Waste may be stored at the Site, based on the Owner's application and supporting documentation. Condition 4.5 is also included to support the Financial Assurance estimate calculations.

Conditions 4.6 through 4.8 are included to set out the waste storage requirements for the Site to ensure that the waste storage at the Site does not result in an Adverse Effect or a hazard to the natural environment or any person.

Conditions 4.9 through 4.16 are included to set out the waste processing, the processed waste and the residual waste requirements for the Site to ensure that the approved activities at the Site does not result in an Adverse Effect or a hazard to the natural environment or any person and is in accordance with the application and supporting documentation submitted by the Owner, and are not in a manner which the Director has not been asked to consider.

Condition 4.17 is included to set out the requirements for the activities at the Site that have a risk of fugitive odour or dust emissions.

Condition 4.18 is included to list the prohibitions applicable to the operation of the Site since the activities were not a part of the Owner's application and were not considered by the Director.

EQUIPMENT and SITE INSPECTIONS and MAINTENANCE

Condition 5.0 is included to require the Waste and Biogas management areas, including the Waste and Biogas processing equipment, to be inspected and the Waste and Biogas processing equipment be maintained thoroughly and on a regular basis to ensure that the operations at the Site are undertaken in a manner which does not result in an Adverse Effect or a hazard to the health and safety of the environment or any person.

WASTE QUALITY CRITERIA

Condition 6.1 is included to identify the parameters to be tested to ensure that the incoming Organic Waste feedstocks are appropriate for anaerobic digestion approved under this Approval.

Condition 6.2 is included to identify the parameters to be tested for when the Digestate is destined for land application following the processing at the Site.

Condition 6.3 is included to identify the requirements for disposal of the Residual Waste generated at the Site.

Condition 6.4 is included to identify the Renewable Natural Gas quality criteria required by the owner and the operator of the natural gas distribution infrastructure.

TESTING and MONITORING

Conditions 7.1 through 7.5 are included to ensure that the Owner regularly tests the incoming Organic Waste received for processing at the Site to verify its compatibility with the proposed processing and the proposed final end-use of the Digestate and the outgoing Digestate to verify its compatibility with the proposed final end-use.

Condition 7.6 is included to ensure that the Owner regularly tests the Clean-Out Material generated at the Site to verify its compatibility with the proposed final disposal destination.

Condition 7.6 is included to specify the process monitoring parameters required for a properly functioning operation as per the consensus in the industry and the Ministry's requirements.

Condition 7.7 is included to require the Biogas upgrading process monitoring required for a properly functioning operation as per the consensus in the industry and the Ministry's requirements.

END-USE of OUTPUTS

Condition 8.0 is included to set out the approved proposed final end-uses of the outputs from the Organic Waste processing at the Site, as proposed in the application and supporting documentation submitted by the Owner and considered by the Director.

NUISANCE IMPACT CONTROL and HOUSEKEEPING

Condition 9.0 is included to ensure that the approved waste management activities are undertaken in a way which does not result in an Adverse Effect or a hazard to the environment or any person and is in accordance with the application and supporting documentation submitted by the Owner, and not in a manner which the Director has not been asked to consider.

COMPLAINT MANAGEMENT

Condition 10.0 is included to require the Owner to respond to any environmental complaints resulting from the operations at the Site appropriately and in a timely manner and that appropriate actions are taken to prevent any further incidents that may cause complaints in the future.

OPERATIONS MANUAL and STAFF TRAINING

Condition 11.0 is included to ensure that personnel employed at the Site are fully aware and properly trained on the requirements and restrictions related to Site operations under this Approval.

CONTINGENCY MEASURES and EMERGENCY SITUATION RESPONSE PLAN

Condition 12.0 is included to ensure that the Owner is prepared and properly equipped to take action in the event of an emergency situation.

EMERGENCY SITUATIONS RESPONSE and REPORTING

Condition 13.0 is included to require further spill notification to the Ministry, in addition to the requirements already listed in Part X of the EPA.

RECORDS KEEPING and RETENTION

Condition 14.0 is included to ensure that detailed records of the Organic Waste, including the Biogas, management activities, inspections, monitoring and upsets are recorded and maintained for inspection and information purposes.

CLOSURE

Condition 15.0 is included to ensure that final closure of the Site is completed in accordance with Ministry's standards.

PUBLIC LIAISON COMMITTEE

Condition 16.0 is included to require the Owner is to establish a forum for the exchange of information and public dialogue on activities carried out at the Site. Open communication with the public and local authorities is important in helping to maintain high standards for Site operation and environmental protection.

PUBLIC ACCESS to DOCUMENTATION

Condition 17.0 is included to ensure that the public has access to information on the operation of the Site in order to participate in the activities of the PLC in a meaningful and effective way.

DISTRICT MANAGER NOTIFICATION

Condition 18.0 was included to require the notification to the District Manager to trigger submission of the Financial Assurance for Phase 2 and to allow the District Manager to take any appropriate action prior to expansion of the Site.

In accordance with Section 139 of the Environmental Protection Act, you may by written Notice served upon me, the Environmental Review Tribunal and in accordance with Section 47 of the Environmental Bill of Rights, 1993, the Minister of the Environment, Conservation and Parks, within 15 days after receipt of this Notice, require a hearing by the Tribunal. The Minister of the Environment, Conservation and Parks will place notice of your appeal on the Environmental Registry. Section 142 of the Environmental Protection Act provides that the Notice requiring the hearing shall state:

- a. The portions of the environmental compliance approval or each term or condition in the environmental compliance approval in respect of which the hearing is required, and;

- b. The grounds on which you intend to rely at the hearing in relation to each portion appealed.

The Notice should also include:

1. The name of the appellant;
2. The address of the appellant;
3. The environmental compliance approval number;
4. The date of the environmental compliance approval;
5. The name of the Director, and;
6. The municipality or municipalities within which the project is to be engaged in.

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, Suite 1500
Toronto, Ontario
M5G 1E5

AND

The Minister of the Environment,
Conservation and Parks
777 Bay Street, 5th Floor
Toronto, Ontario
M7A 2J3

AND

The Director appointed for the purposes of
Part II.1 of the Environmental Protection Act
Ministry of the Environment,
Conservation and Parks
135 St. Clair Avenue West, 1st Floor
Toronto, Ontario
M4V 1P5

*** Further information on the Environmental Review Tribunal's requirements for an appeal can be obtained directly from the Tribunal at: Tel: (416) 212-6349, Fax: (416) 326-5370 or www.ert.gov.on.ca**

This instrument is subject to Section 38 of the Environmental Bill of Rights, 1993, that allows residents of Ontario to seek leave to appeal the decision on this instrument. Residents of Ontario may seek leave to appeal within 15 days from the date this decision is placed on the Environmental Registry. By accessing the Environmental Registry at <https://ero.ontario.ca/>, you can determine when the leave to appeal period ends.

The above noted activity is approved under s.20.3 of Part II.1 of the Environmental Protection Act.

DATED AT TORONTO this 21st day of August, 2023



Mohsen Keyvani, P.Eng.
Director
appointed for the purposes of Part II.1 of the
Environmental Protection Act

MW/

c: Kingston - District
Claire Allen, CH Four Biogas Inc.