

AMENDED ENVIRONMENTAL COMPLIANCE APPROVAL

NUMBER 0984-C6E6DK

Issue Date: April 25, 2022

FORGE Sombra Corporation
224 Holt Line West
Sombra, Ontario
N0P 2H0

Site Location: 224 Holt Line West
St. Clair Township, County of Lambton
N0P 2H0

*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:*

Description Section

A renewable diesel and naphtha manufacturing facility based on Lipid-to-Hydrocarbon (LTH) technology, consisting of the following processes and support units:

- organic fatty acid feedstock receiving and storage ;
- pyrolysis, free fatty acid separation and distillation ;
- onsite storage of renewable diesel and naphtha product;
- Finished Product Loading;
- wastewater treatment;
- one (1) natural gas-fired thermal oxidizer;

including the Equipment and any other ancillary and support processes and activities, operating at a Facility Production Limit of up to 11,700 cubic metres of renewable naphtha and 20,000 cubic metres of renewable diesel per year, discharging to the air as described in the Original ESDM Report.

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

1. "ACB list" means the document entitled "Air Contaminants Benchmarks (ACB) List: Standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", as amended from time to time and published by the Ministry and available on a Government website;
2. "Acceptable Point of Impingement Concentration" means a concentration accepted by the Ministry as not likely to cause an adverse effect for a Compound of Concern that,
 - a. is not identified in the ACB list, or
 - b. is identified in the ACB list as belonging to the category "Benchmark 2" and has a concentration at a Point of Impingement that exceeds the concentration set out for the contaminant in that document.With respect to the Original ESDM Report, the Acceptable Point of Impingement Concentration for a Compound of Concern mentioned above is the concentration set out in the Original ESDM Report;
3. "Acoustic Assessment Report" means the report, prepared in accordance with Publication NPC-233 and Appendix A of the Basic Comprehensive User Guide, by Annik White and Khalid Hussein / RWDI AIR Inc. and dated October 8, 2020 submitted in support of the application, that documents all sources of noise emissions and Noise Control Measures present at the Facility, as updated in accordance with Condition 5 of this Approval;
4. "Acoustic Assessment Summary Table" means a table prepared in accordance with the Basic Comprehensive User Guide summarising the results of the Acoustic Assessment Report, as updated in accordance with Condition 5 of this Approval;
5. "AERMOD" means the dispersion model developed by the American Meteorological Society/U.S. Environmental Protection Agency Regulatory Model Improvement Committee (AERMIC) including the PRIME (Plume Rise Model Enhancement) algorithm, used to calculate one-hour average concentrations of a contaminant at the Point of Impingement and at the most impacted Sensitive Receptor;
6. "Approval" means this entire Environmental Compliance Approval and any Schedules to it;
7. "Basic Comprehensive User Guide" means the Ministry document titled "Basic Comprehensive Certificates of Approval (Air) User Guide" dated March 2011, as amended;
8. "Company" means FORGE Sombra Corporation that is responsible for the construction or operation of the Facility and includes any successors and assigns in accordance with section 19 of the EPA;
9. "Compound of Concern" means a contaminant described in paragraph 4

subsection 26 (1) of O. Reg. 419/05, namely, a contaminant that is discharged from the Facility in an amount that is not negligible;

10. "Description Section" means the section on page one of this Approval describing the Company's operations and the Equipment located at the Facility and specifying the Facility Production Limit for the Facility;
11. "Director" means a person appointed for the purpose of section 20.3 of the EPA by the Minister pursuant to section 5 of the EPA;
12. "District Manager" means the District Manager of the appropriate local district office of the Ministry, where the Facility is geographically located;
13. "Emission Summary Table" means a table described in paragraph 14 of subsection 26 (1) of O. Reg. 419/05;
14. "Environmental Assessment Act" means the *Environmental Assessment Act*, R.S.O. 1990, c.E.18;
15. "EPA" means the *Environmental Protection Act*, R.S.O. 1990, c.E.19;
16. "Equipment" means equipment or processes described in the ESDM Report, this Approval and in the Schedules referred to herein and any other equipment or processes;
17. "Equipment with Specific Operational Limits" means any Equipment related to the thermal oxidation of waste or waste derived fuels, fume incinerators including the aforementioned Thermal Oxidizer or any other Equipment that is specifically referenced in any published Ministry document that outlines specific operational guidance that must be considered by the Director in issuing an Approval;
18. "ESDM Report" means the most current Emission Summary and Dispersion Modelling Report that describes the Facility. The ESDM Report is based on the Original ESDM Report and is updated after the issuance of this Approval in accordance with section 26 of O. Reg. 419/05 and the Procedure Document;
19. "Facility" means the entire operation located on the property where the Equipment is located;
20. "Facility Production Limit" means the production limit placed by the Director on the main product(s) or raw materials used by the Facility;
21. "Fugitive Odour and Dust Emissions Control Plan" means a document or a set of documents which describe measures to minimize odour and dust emissions from the Facility and/or Equipment;
22. "Log" means a document that contains a record of each change that is required to be made to the ESDM Report and Acoustic Assessment Report, including the date on which the change occurred. For example, a record would have to be made of a more accurate emission rate for a source of contaminant, more accurate

meteorological data, a more accurate value of a parameter that is related to a source of contaminant, a change to a Point of Impingement and all changes to information associated with a Modification to the Facility that satisfies Condition 2;

23. "Manager" means the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, or any other person who represents and carries out the duties of the Manager, Technology Standards Section, Technical Assessment and Standards Development Branch, as those duties relate to the conditions of this Approval;
24. "Minister" means the Minister of the Environment, Conservation and Parks or such other member of the Executive Council as may be assigned the administration of the EPA under the Executive Council Act;
25. "Ministry" means the ministry of the Minister;
26. "Modification" means any construction, alteration, extension or replacement of any plant, structure, equipment, apparatus, mechanism or thing, or alteration of a process or rate of production at the Facility that may discharge or alter the rate or manner of discharge of a Compound of Concern to the air or discharge or alter noise or vibration emissions from the Facility;
27. "Noise Control Measures" means measures to reduce the noise emissions from the Facility and/or Equipment including, but not limited to, silencers, acoustic louvres, enclosures, absorptive treatment, plenums and barriers;
28. "O. Reg. 419/05" means Ontario Regulation 419/05: Air Pollution – Local Air Quality, made under the EPA;
29. "Odour Objective" means the maximum 10-minute average concentration of odour measured at the most impacted Sensitive Receptor, computed in accordance with Schedule B, resulting from the operation of the Facility, including fugitive emissions, of not greater than 1.0 Odour Unit more than 0.5% of the time under all atmospheric conditions;
30. "Odour Unit" means the number of unit volumes of odourless gas required to dilute one unit volume of odorous gas to reach the odour threshold;
31. "Original ESDM Report" means the Emission Summary and Dispersion Modelling Report which was prepared in accordance with section 26 of O. Reg. 419/05 and the Procedure Document by RWDI Air Inc. and dated October 8, 2020 submitted in support of the application, and includes any changes to the report made up to the date of issuance of this Approval;
32. "Organic Matter" means organic matter having carbon content expressed as equivalent methane;
33. "Point of Impingement" has the same meaning as in section 2 of O. Reg. 419/05;

34. "Point of Reception" means Point of Reception as defined by Publication NPC-300.
35. "Pre-Test Plan" means a plan for the Source Testing including the information required in Section 5 of the Source Testing Code;
36. "Procedure Document" means Ministry guidance document titled "Procedure for Preparing an Emission Summary and Dispersion Modelling Report" dated March 2018, as amended;
37. "Processes with Significant Environmental Aspects" means the Equipment which, during regular operation, would discharge one or more contaminants into the air in an amount which is not considered as negligible in accordance with section 26 (1) 4 of O. Reg. 419/05 and the Procedure Document;
38. "Publication NPC-207" means the Ministry draft technical publication "Impulse Vibration in Residential Buildings", November 1983, supplementing the Model Municipal Noise Control By-Law, Final Report, published by the Ministry, August 1978, as amended;
39. "Publication NPC-233" means the Ministry Publication NPC-233, "Information to be Submitted for Approval of Stationary Sources of Sound", October, 1995, as amended;
40. "Publication NPC-300" means the Ministry Publication NPC-300, "Environmental Noise Guideline, Stationary and Transportation Sources – Approval and Planning, Publication NPC-300", August 2013, as amended;
41. "Schedules" means the following schedules attached to this Approval and forming part of this Approval namely:
 - Schedule A - Supporting Documentation
 - Schedule B - Procedure to Calculate and Record the 10-minute Average Concentration of Odour;
 - Schedule C - Continuous Temperature Monitoring and Recording System Requirements;
 - Schedule "D" - Source Testing Targeted Sources and Test Contaminants;
 - Schedule "E" - Source Testing Procedures;
42. "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 Facility, including one or a combination of:
 - a. private residences or public facilities where people sleep (eg: single and multi-unit dwellings, nursing homes, hospitals, trailer parks, camping grounds, etc.);

- b. institutional facilities (eg: schools, churches, community centres, day care centres, recreational centres, etc.);
 - c. outdoor public recreational areas (eg: trailer parks, play grounds, picnic areas, etc.); and
 - d. commercial areas where there are continuous public activities (eg: commercial plazas and office buildings);
43. "Source Testing" means sampling and testing to measure emissions resulting from operating the Targeted Sources under conditions which yield the worst case emissions within the approved operating range of the Targeted Sources which satisfies paragraph 1 of subsection 11(1) of O. Reg. 419/0;
44. "Source Testing Code" means the Ontario Source Testing Code, dated June 2010, prepared by the Ministry, as amended;
45. "Targeted Sources" means the emission sources listed in Schedule "D";
46. "Test Contaminants" means the contaminants listed in Schedule "D";
47. "Thermal Oxidizer" means the natural gas-fired thermal oxidizer described in the ESDM Report, the Acoustic Assessment Report and this Approval;
48. "Toxicologist" means a qualified professional currently active in the field of risk assessment and toxicology that has a combination of formal university education, training and experience necessary to assess contaminants;
49. "Written Summary Form" means the electronic questionnaire form, available on the Ministry website, and supporting documentation, that documents the activities undertaken at the Facility in the previous calendar year.

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. GENERAL

1. Except as otherwise provided by this Approval, the Facility shall be designed, developed, built, operated and maintained in accordance with the terms and conditions of this Approval and in accordance with the following Schedules attached hereto:
 - Schedule A - Supporting Documentation
 - Schedule B - Procedure to Calculate and Record the 10-minute Average

Concentration of Odour;

- Schedule C - Continuous Temperature Monitoring and Recording System Requirements;
- Schedule "D" - Source Testing Targeted Sources and Test Contaminants;
- Source Testing Procedures.

2. LIMITED OPERATIONAL FLEXIBILITY

1. Pursuant to section 20.6 (1) of the EPA and subject to Conditions 2.2 and 2.3 of this Approval, future construction, alterations, extensions or replacements are approved in this Approval if the future construction, alterations, extensions or replacements are Modifications to the Facility that:
 - a. are within the scope of the operations of the Facility as described in the Description Section of this Approval;
 - b. do not result in an increase of the Facility Production Limit above the level specified in the Description Section of this Approval; and
 - c. result in compliance with the performance limits as specified in Condition 4.
2. Condition 2.1 does not apply to,
 - a. the addition of any new Equipment with Specific Operational Limits or to the Modification of any existing Equipment with Specific Operational Limits at the Facility; and
 - b. Modifications to the Facility that would be subject to the Environmental Assessment Act.
3. Condition 2.1 of this Approval shall expire ten (10) years from the date of this Approval, unless this Approval is revoked prior to the expiry date. The Company may apply for renewal of Condition 2.1 of this Approval by including an ESDM Report and an Acoustic Assessment Report that describes the Facility as of the date of the renewal application.

3. REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION

1. Prior to making a Modification to the Facility that satisfies Condition 2.1.a. and 2.1.b., the Company shall prepare a proposed update to the ESDM Report to reflect the proposed Modification.
2. The Company shall request approval of an Acceptable Point of Impingement Concentration for a Compound of Concern if the Compound of Concern is not identified in the ACB list as belonging to the category "Benchmark 1" and a

proposed update to an ESDM Report indicates that one of the following changes with respect to the concentration of the Compound of Concern may occur:

- a. The Compound of Concern was not a Compound of Concern in the previous version of the ESDM Report and
 - i. the concentration of the Compound of Concern exceeds the concentration set out for the contaminant in the ACB list; or
 - ii. the Compound of Concern is not identified in the ACB list; or
 - b. The concentration of the Compound of Concern in the updated ESDM Report exceeds the higher of,
 - i. the most recent Acceptable Point of Impingement Concentration, and
 - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
3. The request required by Condition 3.2 shall propose a concentration for the Compound of Concern and shall contain an assessment, performed by a Toxicologist, of the likelihood of the proposed concentration causing an adverse effect at Points of Impingement.
 4. If the request required by Condition 3.2 is a result of a proposed Modification described in Condition 3.1, the Company shall submit the request, in writing, to the Director at least 30 days prior to commencing to make the Modification. The Director shall provide written confirmation of receipt of this request to the Company.
 5. If a request is required to be made under Condition 3.2 in respect of a proposed Modification described in Condition 3.1, the Company shall not make the Modification mentioned in Condition 3.1 unless the request is approved in writing by the Director.
 6. If the Director notifies the Company in writing that the Director does not approve the request, the Company shall,
 - a. revise and resubmit the request; or
 - b. notify the Director that it will not be making the Modification.
 7. The re-submission mentioned in Condition 3.6 shall be deemed a new submission under Condition 3.2.
 8. If the Director approves the request, the Company shall update the ESDM Report to reflect the Modification.
 9. Condition 3 does not apply if Condition 2.1 has expired.

4. PERFORMANCE LIMITS

1. Subject to Condition 4.2, the Company shall not discharge or cause or permit the discharge of a Compound of Concern into the air if,
 - a. the Compound of Concern is identified in the ACB list as belonging to the category "Benchmark 1" and the discharge results in the concentration at a Point of Impingement exceeding the Benchmark 1 concentration; or
 - b. the Compound of Concern is not identified in the ACB list as belonging to the category "Benchmark 1" and the discharge results in the concentration at a Point of Impingement exceeding the higher of,
 - i. if an Acceptable Point of Impingement Concentration exists, the most recent Acceptable Point of Impingement Concentration, and
 - ii. the concentration set out for the contaminant in the ACB list, if the contaminant is identified in that document.
2. Condition 4.1 does not apply if the benchmark set out in the ACB list has a 10-minute averaging period and no ambient monitor indicates an exceedance at a Point of Impingement where human activities regularly occur at a time when those activities regularly occur.
3. The Company shall,
 - a. implement, not later than one (1) month after the commencement of operations of the Facility, the Noise Control Measures outlined in section 3.5 and figure E1 of the Acoustic Assessment Report;
 - b. ensure, subsequent to the full implementation of the Noise Control Measures, that the noise emissions from the Facility comply with the limits set in Ministry Publication NPC-300; and
 - c. ensure that the Noise Control Measures are properly maintained and continue to provide the acoustical performance outlined in the Acoustic Assessment Report.
4. The Company shall ensure that the vibration emissions from the Facility comply with the limits set out in Ministry Publication NPC-207.
5. The Company shall operate any Equipment with Specific Operational Limits approved by this Approval in accordance with the Original ESDM Report and Conditions 5 in this Approval.

5. THERMAL OXIDIZER

1. The Company shall operate the Thermal Oxidizer in such a manner that:
 - a. The combustion chamber shall be preheated to a minimum of 871

degrees Celsius prior to introducing the emissions for destruction.

- b. The temperature in the combustion chamber, is maintained at a minimum of 871 degrees Celsius at all times, when the Thermal Oxidizer is in operation.
- c. The residence time of the combustion gases in the combustion chamber of the Thermal Oxidizer shall not be less than 0.75 second at a temperature of 871 degrees Celsius minimum.
- d. The concentration of Organic Matter in the flue gas of the Thermal Oxidizer, being an average of ten measurements taken at approximately one minute intervals, shall not be greater than 100 parts per million by volume, measured on an undiluted basis.

2. The Company shall install, conduct and maintain a program to continuously monitor temperature in the combustion chamber of the Thermal Oxidizer. The continuous monitoring system shall be equipped with continuous recording devices and shall comply with the requirements outlined in the attached Schedule C.

6. SOURCE TESTING

1. The Company shall perform Source Testing in accordance with the procedures in Schedule "E" to determine the rates of emissions of the Test Contaminants from the Targeted Sources listed in Schedule "D".

7. ESDM REPORT UPDATING

1. Immediately after the Thermal Oxidizer has been selected with a guaranteed contaminant removal efficiency, the Company shall update its ESDM Report in accordance with Section 26 of O. Reg. 419/05 with the results calculated based on the guaranteed contaminant removal efficiency of the Thermal Oxidizer and make the updated ESDM Report available for review by staff of the Ministry upon request.

8. DOCUMENTATION REQUIREMENTS

1. The Company shall maintain an up-to-date Log.
2. No later than March 31 in each year, the Company shall update the Acoustic Assessment Report and shall update the ESDM Report in accordance with section 26 of O. Reg. 419/05 so that the information in the reports is accurate as of December 31 in the previous year.
3. The Company shall make the Emission Summary Table (see section 27 of O. Reg. 419/05) and Acoustic Assessment Summary Table available for examination by any person, without charge, by posting it on the Internet or by making it available during regular business hours at the Facility.

4. The Company shall, within three (3) months after the expiry of Condition 2.1 of this Approval, update the ESDM Report and the Acoustic Assessment Report such that the information in the reports is accurate as of the date that Condition 2.1 of this Approval expired.
5. Conditions 5.1 and 5.2 do not apply if Condition 2.1 has expired.

9. REPORTING REQUIREMENTS

1. Subject to Condition 6.2, the Company shall provide the Director no later than June 30 of each year, a Written Summary Form to be submitted through the Ministry's website that shall include the following:
 - a. a declaration of whether the Facility was in compliance with section 9 of the EPA, O. Reg. 419/05 and the conditions of this Approval;
 - b. a summary of each Modification satisfying Condition 2.1.a. and 2.1.b. that took place in the previous calendar year that resulted in a change in the previously calculated concentration at a Point of Impingement for any Compound of Concern or resulted in a change in the sound levels reported in the Acoustic Assessment Summary Table at any Point of Reception.
2. Condition 6.1 does not apply if Condition 2.1 has expired.

10. OPERATION AND MAINTENANCE

1. The Company shall prepare and implement, not less than three (3) months prior to commissioning of the Equipment, operating procedures and maintenance programs for all Processes with Significant Environmental Aspects, which shall specify as a minimum:
 - a. frequency of inspections and scheduled preventative maintenance;
 - b. procedures to prevent upset conditions;
 - c. procedures to minimize all fugitive emissions;
 - d. procedures to prevent and/or minimize odorous emissions;
 - e. procedures to prevent and/or minimize noise emissions; and
 - f. procedures for record keeping activities relating to the operation and maintenance programs.
2. The Company shall ensure that all Processes with Significant Environmental Aspects are operated and maintained in accordance with this Approval, the operating procedures and maintenance programs.

11. FUGITIVE ODOUR AND DUST CONTROL

1. The Company shall develop in consultation with the District Manager, a

Fugitive Odour and Dust Emissions Control Plan to prevent or mitigate fugitive odour emissions from the operation of the Facility. This Fugitive Odour and Dust Emissions Plan shall include, but not be limited to:

- a. identification of the main sources of fugitive odour and dust emissions such as:
 - i. process exhausts;
 - ii. storage tanks;
 - iii. loading and unloading operations and techniques;
 - iv. material spills;
 - v. building general ventilation systems;
 - vi. exposed openings in process and storage buildings; and
 - vii. general work areas.
 - b. potential causes for odour and/or dust emissions resulting from these sources; and
 - c. preventative and control measures to minimize the likelihood of fugitive odour and dust emissions from the sources identified above.
 - d. preparation in accordance with the Ministry's publication "Technical Bulletin: Management Approaches for Industrial Fugitive Dust Sources" (as amended) and the Ministry's publication "Best Management Practices for Industrial Sources of Odour" (as amended);
 - e. preventive and control measures intended to meet the Odour Objective.
2. The Company shall submit the Fugitive Odour and Dust Emissions Control Plan to the District Manager not less than three (3) months prior to commissioning of the Equipment or as otherwise indicated by the District Manager.
 3. Upon acceptance of the Fugitive Odour and Dust Emissions Control Plan by the District Manager, the Company shall immediately implement the Fugitive Odour and Dust Emissions Control Plan for the control of fugitive odour and dust emissions resulting from the operation of the Facility.
 4. The Company shall update the Fugitive Odour and Dust Emissions Control Plan as necessary or at the direction of the District Manager.

12. COMPLAINTS RECORDING AND REPORTING

1. If at any time, the Company receives an environmental complaint from the public regarding the operation of the Equipment approved by this Approval, the Company shall take the following steps:

- a. Record and number each complaint, either electronically or in a log book. The record shall include the following information: the time and date of the complaint and incident to which the complaint relates, the nature of the complaint, wind direction at the time and date of the incident to which the complaint relates and, if known, the address of the complainant.
- b. Notify the District Manager of the complaint within two (2) business days after the complaint is received, or in a manner acceptable to the District Manager.
- c. Initiate appropriate steps to determine all possible causes of the complaint, and take the necessary actions to appropriately deal with the cause of the subject matter of the complaint.
- d. Complete and retain on-site a report written within five (5) business days of the complaint date. The report shall list the actions taken to appropriately deal with the cause of the complaint and set out steps to be taken to avoid the recurrence of similar incidents.

13. RECORD KEEPING REQUIREMENTS

1. Any information requested by any employee in or agent of the Ministry concerning the Facility and its operation under this Approval, including, but not limited to, any records required to be kept by this Approval, shall be provided to the employee in or agent of the Ministry, upon request, in a timely manner.
2. Unless otherwise specified in this Approval, the Company shall retain, for a minimum of five (5) years from the date of their creation all reports, records and information described in this Approval, including,
 - a. a copy of the Original ESDM Report and each updated version;
 - b. a copy of each version of the Acoustic Assessment Report;
 - c. supporting information used in the emission rate calculations performed in the ESDM Reports and Acoustic Assessment Reports;
 - d. the records in the Log;
 - e. copies of each Written Summary Form provided to the Ministry under Condition 6.1 of this Approval;
 - f. records of maintenance, repair and inspection of Equipment related to all Processes with Significant Environmental Aspects; and
 - g. all records related to environmental complaints made by the public as required by Condition 8 of this Approval.

14. REVOCATION OF PREVIOUS APPROVALS

1. This Approval replaces and revokes all Certificates of Approval (Air) issued under section 9 EPA and Environmental Compliance Approvals issued under Part II.1 EPA to the Facility in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

SCHEDULE A

Supporting Documentation

1. Environmental Compliance Approval Application, dated September 10, 2020 signed by Tim Haig and submitted by the Company;
2. Emission Summary and Dispersion Modelling Report, prepared by RWDI Air Inc. and dated October 8, 2020;
3. Acoustic Assessment Report, prepared by Annik White and Khalid Hussein / RWDI AIR Inc. and dated October 8, 2020;
4. Responses to Neegan Burnside Review of FORGE Sombra Project, prepared by RWDI AIR Inc. and dated October 21, 2021.

SCHEDULE B

Procedure to Calculate and Record the 10-minute Average Concentration of Odour

1. Calculate and record one-hour average concentration of odour at the Point of Impingement and at the most impacted Sensitive Receptor, employing the AERMOD atmospheric dispersion model or any other model acceptable to the Director, that employs at least five (5) years of hourly local meteorological data and that can provide results reported as individual one-hour average odour concentrations;
2. Convert and record each of the one-hour average concentrations predicted over the five (5) years of hourly local meteorological data at the Point of Impingement and at the most impacted Sensitive Receptor to 10-minute average concentrations using the One-hour Average to 10-Minute Average Conversion described below; and
3. Record and present the 10-Minute Average concentrations predicted to occur over a five (5) year period at the Point of Impingement and at the most impacted Sensitive Receptor in a histogram. The histogram shall identify all predicted 10-minute average odour concentration occurrences in terms of frequency, identifying

the number of occurrences over the entire range of predicted odour concentration in increments of not more than 1/10 of one odour unit. The maximum 10-minute average concentration of odour at the Sensitive Receptor will be considered to be the maximum odour concentration at the most impacted Sensitive Receptor that occurs and is represented in the histogram, disregarding outlying data points on the histogram as agreed to by the Director.

One-hour Average To 10-minute Average Conversion

Use the following formula to convert and record one-hour average concentrations at the Point of Impingement and at the most impacted Sensitive Receptor to 10-minute average concentrations:

$$X_{10\text{min}} = X_{60\text{min}} * 1.65$$

where:

$X_{10\text{min}}$ = 10-minute average concentration

$X_{60\text{min}}$ = one-hour average concentration

SCHEDULE C

Continuous Temperature Monitoring and Recording System Requirements

PARAMETER: Temperature

LOCATION:

The sample point for the continuous temperature monitoring and recording system shall be located at a location where the measurements are representative of the minimum temperature of the gases leaving the combustion chamber of the Thermal Oxidizer.

PERFORMANCE:

The continuous temperature monitoring and recording system shall meet the following minimum performance specifications for the following parameters:

Type: shielded "K" type thermocouple, or equivalent

Accuracy: ±1.5 percent of the minimum gas temperature

DATA RECORDER:

The data recorder must be capable of registering continuously the measurement of the monitoring system without a significant loss of accuracy and with a time resolution of one (1) minute or better.

RELIABILITY:

The monitoring system shall be operated and maintained so that accurate data is obtained during a minimum of 95 percent of the time for each calendar quarter.

SCHEDULE “D”

Source Testing Targeted Sources and Test Contaminants

Targeted Sources Source ID	Targeted Sources Source Description	Test Contaminants CAS Number	Test Contaminants Chemical Name
EP-01 EP-06 EP-07 EP-08 EP-10 EP-11 EP-14	HE-7001 Thermal Fluid Heater Stack TK-6004 Renewable Diesel Day Tank TK-6008 Renewable Diesel Day Tank TK-6103 Off Spec Storage Tank TK-6107 Off Spec Storage Tank TK-8002 Renewable Diesel Storage Tank TOX-7210 Tail Gas Thermal Oxidizer	71-43-2	Benzene
EP-01 EP-06 EP-07 EP-08 EP-10 EP-11 EP-14	HE-7001 Thermal Fluid Heater Stack TK-6004 Renewable Diesel Day Tank TK-6008 Renewable Diesel Day Tank TK-6103 Off Spec Storage Tank TK-6107 Off Spec Storage Tank TK-8002 Renewable Diesel Storage Tank	91-20-3	Naphthalene

	TOX-7210 Tail Gas Thermal Oxidizer		
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SCHEDULE "E"

Source Testing Procedures

1. The Company shall submit, not later than three (3) months after commissioning the Equipment, to the Manager a Pre-Test Plan for the Source Testing required under this Approval. The Company shall finalize the Pre-Test Plan in consultation with the Manager.
2. The Company shall not commence the Source Testing required under this Approval until the Manager has approved the Pre-Test Plan.
3. The Company shall complete the Source Testing not later than three (3) months after the Manager has approved the Pre-Test Plan.
4. The Company shall notify the Manager, the District Manager and the Director in writing of the location, date and time of any impending Source Testing required by this Approval, at least fifteen (15) days prior to the Source Testing.
5. The Company shall submit a report (hardcopy and electronic format) on the Source Testing to the Manager, the District Manager and the Director not later than three (3) months after completing the Source Testing. The report shall be in the format described in the Source Testing Code, and shall also include, but not be limited to:
 - a. an executive summary;
 - b. an identification of the applicable North American Industry Classification System code (NAICS) for the Facility;
 - c. records of operating conditions at the time of Source Testing, including but not limited to the following:
 - i. production data;
 - ii. Facility/process information related to the operation of the Targeted Sources;
 - iii. description of the emission sources controlled by the Targeted Sources at the time of testing; and
 - iv. operational description of the general building ventilation at the time of testing;
 - d. results of Source Testing, including the emission rate, emission

concentration, relevant emission factor of the Test Contaminants from the Targeted Sources and Test Contaminant site-wide maximum point of impingement concentrations calculated based on emission rates determined by the Source Testing on the Targeted Sources and emission rate estimated for the fugitive emissions from the wastewater treatment building according to the Ministry's Procedure Document; and

- e. a tabular comparison of total emission rates and site-wide maximum point of impingement concentrations based on the Source Testing results for the Test Contaminants to their original emission estimates described in the Company's application and the ESDM Report.

6. The Director may not accept the results of the Source Testing if:

- a. the Source Testing Code or the requirements of the Manager were not followed;
- b. the Company did not notify the Manager, the District Manager and Director of the Source Testing; or
- c. the Company failed to provide a complete report on the Source Testing.

7. If the Director does not accept the results of the Source Testing, the Director may require re-testing. If re-testing is required, the Pre-Test Plan strategies need to be revised and submitted to the Manager for approval. The actions taken to minimize the possibility of the Source Testing results not being accepted by the Director must be noted in the revision.

8. If the Source Testing results are higher than the emission estimates in the Company's ESDM Report, the Company shall update their ESDM Report in accordance with Section 26 of O. Reg. 419/05 with the results from the Source Testing report and make these records available for review by staff of the Ministry upon request. The updated Emission Summary Table from the updated ESDM Report shall be submitted with the report on the Source Testing.

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

1. **GENERAL**

Condition No. 1 is included to require the Approval holder to build, operate and maintain the Facility in accordance with the Supporting Documentation in

Schedule A considered by the Director in issuing this Approval.

2. LIMITED OPERATIONAL FLEXIBILITY, REQUIREMENT TO REQUEST AN ACCEPTABLE POINT OF IMPINGEMENT CONCENTRATION AND PERFORMANCE LIMITS

Conditions No. 2, 3 and 4 are included to limit and define the Modifications permitted by this Approval, and to set out the circumstances in which the Company shall request approval of an Acceptable Point of Impingement Concentration prior to making Modifications. The holder of the Approval is approved for operational flexibility for the Facility that is consistent with the description of the operations included with the application up to the Facility Production Limit. In return for the operational flexibility, the Approval places performance based limits that cannot be exceeded under the terms of this Approval. Approval holders will still have to obtain other relevant approvals required to operate the Facility, including requirements under other environmental legislation such as the Environmental Assessment Act.

3. THERMAL OXIDIZER REQUIREMENTS

Condition No. 5 is included to emphasize that the Equipment must be operated and maintained according to a procedure that will result in compliance with the EPA, the Regulations and this Approval.

4. SOURCE TESTING

Condition No. 6 is included to require the Company to gather accurate information so that compliance with the EPA, the regulations and this Approval can be verified.

5. ESDM REPORT UPDATING

Condition No. 7 is included to require the Company to update the ESDM Report with the guaranteed contaminant removal efficiency for the Thermal Oxidizer.

6. DOCUMENTATION REQUIREMENTS

Condition No. 8 is included to require the Company to maintain ongoing documentation that demonstrates compliance with the performance limits as specified in Condition No. 4 of this Approval and allows the Ministry to monitor ongoing compliance with these performance limits. The Company is required to have an up to date ESDM Report and Acoustic Assessment Report that describe the Facility at all times and make the Emission Summary Table and Acoustic Assessment Summary Table from these reports available to the public on an ongoing basis in order to maintain public communication with regard to the emissions from the Facility.

7. REPORTING REQUIREMENTS

Condition No. 9 is included to require the Company to provide a yearly Written Summary Form to the Ministry, to assist the Ministry with the review of the site's compliance with the EPA, the regulations and this Approval.

8. OPERATION AND MAINTENANCE

Condition No. 10 is included to require the Company to properly operate and maintain the Processes with Significant Environmental Aspects to minimize the impact to the environment from these processes.

9. FUGITIVE ODOUR AND DUST EMISSIONS CONTROL

Condition No. 11 is included to emphasize that the Equipment must be maintained and operated according to a procedure that will result in compliance with the EPA, the Regulations and this Approval.

10. COMPLAINTS RECORDING AND REPORTING PROCEDURE

Condition No. 12 is included to require the Company to respond to any environmental complaints regarding the operation of the Equipment, according to a procedure that includes methods for preventing recurrence of similar incidents and a requirement to prepare and retain a written report.

11. RECORD KEEPING REQUIREMENTS

Condition No. 13 is included to require the Company to retain all documentation related to this Approval and provide access to employees in or agents of the Ministry, upon request, so that the Ministry can determine if a more detailed review of compliance with the performance limits as specified in Condition No. 4 of this Approval is necessary.

12. REVOCATION OF PREVIOUS APPROVALS

Condition No. 14 is included to identify that this Approval replaces all Section 9 Certificate(s) of Approval and Part II.1 Approvals in regards to the activities mentioned in subsection 9(1) of the EPA and dated prior to the date of this Approval.

Upon issuance of the environmental compliance approval, I hereby revoke Approval No(s). 6835-8QZTES issued on March 14, 2012

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.

Pursuant to subsection 139(3) of the Environmental Protection Act, a hearing may not

be required with respect to any terms and conditions in this environmental compliance approval, if the terms and conditions are substantially the same as those contained in an approval that is amended or revoked by this environmental compliance approval.

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 25th day of April, 2022



Nancy E Orpana, P.Eng.
Director
appointed for the purposes of Part
II.1 of the *Environmental Protection
Act*

AH/

c: District Manager, MECP Sarnia

Annik White, RWDI Air Inc.