217/785-1705

JOINT GENERAL CONSTRUCTION AND LIFETIME OPERATING PERMIT

PERMITTEE

‘VARIABLE’

Attn: ‘VARIABLE’

‘VARIABLE’

‘VARIABLE’

Application No.: ‘VARIABLE’ I.D. No.: ‘VARIABLE’

Applicant’s Designation: ‘VARIABLE’ Date Received: ‘VARIABLE’

Subject: Remediation System

Date Issued: ‘VARIABLE’ Expiration Date: See Condition 1.

Location: ‘VARIABLE’

This permit is hereby granted to the above-designated Permittee to CONSTRUCT and OPERATE emission unit(s) and/or air pollution control equipment consisting of:

One Remediation System as specified below in Findings:

## Findings

1. This joint general construction and lifetime operating permit is applicable to a remediation system that meets the following criteria:

a. The source is eligible for a permit issued pursuant to 35 Ill. Adm. Code 201.169(a).

b. The emissions of hazardous air pollutants (HAPs) shall not exceed 4.0 tons per year for total combined HAPs;

c. The remediation system treats contaminated soil in-situ (not excavated) and/or on-site generated contaminated groundwater.

2a. A remediation system is limited to a soil vapor extraction (SVE) system with or without air sparging or emission controls, a groundwater air stripper unit with or without an oil/water separator, or a combination of the above. SVE system emission controls are limited to either a thermal/catalytic oxidizer or activated carbon system.

b. Other facilities or emission units, such as concrete batch plants, asphalt mix plants, incinerators, or any other process units, are not allowed to operate at the remediation system site.

3. This permit imposes conditions on the remediation system to assure compliance with applicable requirements of 35 Ill. Adm. Code Parts 215/218/219.

## Conditions

This permit is subject to standard conditions attached hereto and the following special conditions:

1a. This permit is effective only if the Permittee has complied with all standard conditions of the construction permit.

b. Operation of the emission units included in this permit shall not begin until all equipment, including all associated air pollution control equipment, has been constructed and is operational.

c. This permit shall expire 180 days after the Illinois EPA sends a written request for the renewal of this permit.

d. This permit shall terminate if it is withdrawn or is superseded by a revised permit.

2. This permit allows the construction and/or operation of a remediation system not exceeding:

a. One SVE system with one blower with or without air sparging;

b. One thermal/catalytic oxidizer or activated carbon system for control of SVE system emissions; and

c. One groundwater air stripper unit with or without an oil separator.

3. This permit does not exempt the Permittee from obtaining a Construction and/or Operating Permit for any additional emission units or control devices in excess of those units specified in Special Condition 2, unless such emission units or operations are already exempted from permitting requirements pursuant to 35 Ill. Adm. Code 201.146.

4a. The Permittee shall operate the remediation system such that the emissions do not exceed the following limits:

|  |  |  |
| --- | --- | --- |
| Maximum VOM Emissions | | |
| (Lbs/Hour) | (Tons/Month) | (Tons/Year) |
|  |  |  |
| 2.0 | 0.5 | 4.0 |

The emissions shall be calculated using the following equations as applicable:

b. SVE System emissions:



c. Air stripper unit emissions:



d. This permit is issued based on negligible emissions of VOM from an oil/water separator, if present. For this purpose, VOM emissions from an oil/water separator shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 tons/year.

e. The Permittee shall comply with the applicable requirements of 35 Ill. Adm. Code Part 215/218/219.

f. Compliance with annual limits shall be determined from a running total of 12 months of data.

5. At all times, the Permittee shall maintain and operate the remediation system in a manner consistent with good air pollution control practice for minimizing emissions.

6. This permit is issued based on the potential to emit (PTE) for hazardous air pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act being less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs, or such less quantity as USEPA may establish by rule which would require the Permittee to obtain a Clean Air Act Permit Program (CAAPP) permit from the Illinois EPA.

7. In the event that the operation of this source results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in operation or installation of controls, in order to eliminate the odor nuisance.

8a. The issuance of this permit does not relieve the Permittee of the responsibility of complying with the applicable provisions of the State of Illinois Rules and Regulations, Title 35: Subtitle C, Water Pollution Control, Chapter 1. The Permittee may need to obtain a permit from the Division of Water Pollution Control for installation and operation of the system.

b. It should be noted that issuance of this permit does not relieve the Permittee from compliance with the applicable portions of 35 Ill. Adm. Code Part 731 Underground Storage Tanks or the permit requirements of Sections 21 and 39 of the Environmental Protection Act with respect to a waste management operation, nor does it constitute a release from further responsibility for preventive or corrective action as defined under Section 4(y) of the Environmental Protection Act. Pursuant to 35 Ill. Adm. Code Part 731, approval may be required from the Bureau of Land – Leaking Underground Storage Tank Section prior to the installation or operation of this equipment.

9. The Permittee shall, in accordance with the manufacturer(s) and/or vendor(s) recommendations, perform periodic inspections and maintenance on the equipment covered under this permit such that the equipment will be kept in proper working condition and not cause a violation of the Environmental Protection Act or regulations promulgated therein.

10. The Permittee shall maintain monthly records of the following items as applicable:

a. Measured exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air flow samples exhausting the SVE system. These samples and measurements shall be taken at start-up, 2 times/week for first 2 weeks, and once every month thereafter. Air samples from the first two months shall be sent to a certified lab and analyzed by USEPA method TO-15. After the first 2 months of operation, the Permittee may measure exhaust total VOM and HAP contaminant concentration (ppmv) in exhaust air using an appropriately calibrated photo or flame ionization detector on a once every month basis. However, if a control device is replaced or additional SVE wells are added to the system, the sampling requirements will revert back to those at start-up for a two month period as described above.

b. SVE exhaust air flow rate (dscfm) at start-up, two times/week for first two weeks, and once every month thereafter;

c. Total VOM/HAP concentrations (mg/L) in the influent water to the air stripper measured at start-up, once/week for first two weeks, and once every month thereafter;

d. Influent water flow rate (gpm) to the air stripper measured at start-up, once/week for first two weeks, and once every month thereafter;

e. Hours operated for SVE system (and any control device) and air stripper and gallons of water treated between measurements and total hours/year and gallons/year;

f. Description and dates of any inspections, maintenance, repair, and replacement performed on the emission units and control devices; and

g. VOM and HAP emissions based on calculations using the equations in Condition 4 and the data collected in (a) through (e) above (tons between measurements, tons/year).

11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

12. If there is an exceedance of or deviation from the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA’s Compliance Section in Springfield, Illinois within 30 days after the exceedance/deviation. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or deviation and efforts to reduce emissions and future occurrences.

13. Two (2) copies of required reports and notifications shall be sent to:

Illinois Environmental Protection Agency

Division of Air Pollution Control

Compliance Section (#40)

P.O. Box 19276

Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the appropriate Illinois EPA Regional Office at the following address unless otherwise indicated:

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 1

9511 West Harrison

Des Plaines, Illinois 60016

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 2

412 SW Washington Street

Suite D

Peoria, IL 61602

Illinois Environmental Protection Illinois EPA

Division of Air Pollution Control – Region 3

2009 Mall Street

Collinsville, Illinois 62234

14. Persons with lifetime general operating permits must obtain a revised permit for any of the following changes at the source:

a. An increase in emissions above the amount the emission unit or the source is permitted to emit;

b. A modification;

c. A change in operations that will result in the source’s noncompliance with conditions in the existing permit; or

d. A change in ownership, company name, or address, so that the application or existing permit is no longer accurate.

If you have any questions on this permit, please contact the Permit Section at 217/785-1705.

Raymond E. Pilapil Date Signed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Acting Manager, Permit Section

Division of Air Pollution Control

REP:’VARIABLE’:’VARIABLE’

cc: Region ‘VARIABLE’