

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION**

June 16, 2015

PERMIT TO INSTALL
887-92G

ISSUED TO
Wexford Sand Company

LOCATED AT
8770 West 28 Mile Road
Harrietta, Michigan

IN THE COUNTY OF
Wexford

STATE REGISTRATION NUMBER
N5205

The Air Quality Division has approved this Permit to Install, pursuant to the delegation of authority from the Michigan Department of Environmental Quality. This permit is hereby issued in accordance with and subject to Section 5505(1) of Article II, Chapter I, Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended. Pursuant to Air Pollution Control Rule 336.1201(1), this permit constitutes the permittee's authority to install the identified emission unit(s) in accordance with all administrative rules of the Department and the attached conditions. Operation of the emission unit(s) identified in this Permit to Install is allowed pursuant to Rule 336.1201(6).

DATE OF RECEIPT OF ALL INFORMATION REQUIRED BY RULE 203: May 28, 2015	
DATE PERMIT TO INSTALL APPROVED: June 16, 2015	SIGNATURE:
DATE PERMIT VOIDED:	SIGNATURE:
DATE PERMIT REVOKED:	SIGNATURE:

PERMIT TO INSTALL

Table of Contents

Section	Page
Alphabetical Listing of Common Abbreviations / Acronyms	2
General Conditions	3
Special Conditions	5
Emission Unit Summary Table.....	5
Special Conditions for EUFLUIDBEDDRYER.....	6
Special Conditions for EUWEXFORD1.....	9
Special Conditions for EUWEXFORD2.....	11
Special Conditions for EUTRUCKLOAD	13
Special Conditions for EURAILLOAD	15
Special Conditions for EUTRAFFIC.....	17
Special Conditions for EUSTORAGE	19
Flexible Group Summary Table	21
Special Conditions for FGSHARED	22
Special Conditions for FGFACILITY	24
Appendix A.....	26
Appendix B.....	28

Common Abbreviations / Acronyms

Common Acronyms		Pollutant / Measurement Abbreviations	
AQD	Air Quality Division	BTU	British Thermal Unit
BACT	Best Available Control Technology	°C	Degrees Celsius
CAA	Clean Air Act	CO	Carbon Monoxide
CEM	Continuous Emission Monitoring	dscf	Dry standard cubic foot
CFR	Code of Federal Regulations	dscm	Dry standard cubic meter
CO ₂ e	Carbon Dioxide Equivalent	°F	Degrees Fahrenheit
COM	Continuous Opacity Monitoring	gr	Grains
EPA	Environmental Protection Agency	Hg	Mercury
EU	Emission Unit	hr	Hour
FG	Flexible Group	H ₂ S	Hydrogen Sulfide
GACS	Gallon of Applied Coating Solids	hp	Horsepower
GC	General Condition	lb	Pound
GHGs	Greenhouse Gases	kW	Kilowatt
HAP	Hazardous Air Pollutant	m	Meter
HVLP	High Volume Low Pressure *	mg	Milligram
ID	Identification	mm	Millimeter
LAER	Lowest Achievable Emission Rate	MM	Million
MACT	Maximum Achievable Control Technology	MW	Megawatts
MAERS	Michigan Air Emissions Reporting System	ng	Nanogram
MAP	Malfuction Abatement Plan	NO _x	Oxides of Nitrogen
MDEQ	Michigan Department of Environmental Quality (Department)	PM	Particulate Matter
MSDS	Material Safety Data Sheet	PM10	PM less than 10 microns diameter
NESHAP	National Emission Standard for Hazardous Air Pollutants	PM2.5	PM less than 2.5 microns diameter
NSPS	New Source Performance Standards	pph	Pounds per hour
NSR	New Source Review	ppm	Parts per million
PS	Performance Specification	ppmv	Parts per million by volume
PSD	Prevention of Significant Deterioration	ppmw	Parts per million by weight
PTE	Permanent Total Enclosure	psia	Pounds per square inch absolute
PTI	Permit to Install	psig	Pounds per square inch gauge
RACT	Reasonably Available Control Technology	scf	Standard cubic feet
ROP	Renewable Operating Permit	sec	Seconds
SC	Special Condition	SO ₂	Sulfur Dioxide
SCR	Selective Catalytic Reduction	THC	Total Hydrocarbons
SRN	State Registration Number	tpy	Tons per year
TAC	Toxic Air Contaminant	µg	Microgram
TEQ	Toxicity Equivalence Quotient	VOC	Volatile Organic Compound
VE	Visible Emissions	yr	Year

* For High Volume Low Pressure (HVLP) applicators, the pressure measured at the HVLP gun air cap shall not exceed ten (10) pounds per square inch gauge (psig).

GENERAL CONDITIONS

1. The process or process equipment covered by this permit shall not be reconstructed, relocated, or modified, unless a Permit to Install authorizing such action is issued by the Department, except to the extent such action is exempt from the Permit to Install requirements by any applicable rule. **(R 336.1201(1))**
2. If the installation, construction, reconstruction, relocation, or modification of the equipment for which this permit has been approved has not commenced within 18 months, or has been interrupted for 18 months, this permit shall become void unless otherwise authorized by the Department. Furthermore, the permittee or the designated authorized agent shall notify the Department via the Supervisor, Permit Section, Air Quality Division, Michigan Department of Environmental Quality, P.O. Box 30260, Lansing, Michigan 48909-7760, if it is decided not to pursue the installation, construction, reconstruction, relocation, or modification of the equipment allowed by this Permit to Install. **(R 336.1201(4))**
3. If this Permit to Install is issued for a process or process equipment located at a stationary source that is not subject to the Renewable Operating Permit program requirements pursuant to R 336.1210, operation of the process or process equipment is allowed by this permit if the equipment performs in accordance with the terms and conditions of this Permit to Install. **(R 336.1201(6)(b))**
4. The Department may, after notice and opportunity for a hearing, revoke this Permit to Install if evidence indicates the process or process equipment is not performing in accordance with the terms and conditions of this permit or is violating the Department's rules or the Clean Air Act. **(R 336.1201(8), Section 5510 of Act 451, PA 1994)**
5. The terms and conditions of this Permit to Install shall apply to any person or legal entity that now or hereafter owns or operates the process or process equipment at the location authorized by this Permit to Install. If the new owner or operator submits a written request to the Department pursuant to R 336.1219 and the Department approves the request, this permit will be amended to reflect the change of ownership or operational control. The request must include all of the information required by subrules (1)(a), (b), and (c) of R 336.1219 and shall be sent to the District Supervisor, Air Quality Division, Michigan Department of Environmental Quality. **(R 336.1219)**
6. Operation of this equipment shall not result in the emission of an air contaminant which causes injurious effects to human health or safety, animal life, plant life of significant economic value, or property, or which causes unreasonable interference with the comfortable enjoyment of life and property. **(R 336.1901)**
7. The permittee shall provide notice of an abnormal condition, start-up, shutdown, or malfunction that results in emissions of a hazardous or toxic air pollutant which continue for more than one hour in excess of any applicable standard or limitation, or emissions of any air contaminant continuing for more than two hours in excess of an applicable standard or limitation, as required in Rule 912, to the Department. The notice shall be provided not later than two business days after start-up, shutdown, or discovery of the abnormal condition or malfunction. Written reports, if required, must be filed with the Department within 10 days after the start-up or shutdown occurred, within 10 days after the abnormal conditions or malfunction has been corrected, or within 30 days of discovery of the abnormal condition or malfunction, whichever is first. The written reports shall include all of the information required in Rule 912(5). **(R 336.1912)**
8. Approval of this permit does not exempt the permittee from complying with any future applicable requirements which may be promulgated under Part 55 of 1994 PA 451, as amended or the Federal Clean Air Act.
9. Approval of this permit does not obviate the necessity of obtaining such permits or approvals from other units of government as required by law.
10. Operation of this equipment may be subject to other requirements of Part 55 of 1994 PA 451, as amended and the rules promulgated thereunder.

11. Except as provided in subrules (2) and (3) or unless the special conditions of the Permit to Install include an alternate opacity limit established pursuant to subrule (4) of R 336.1301, the permittee shall not cause or permit to be discharged into the outer air from a process or process equipment a visible emission of density greater than the most stringent of the following. The grading of visible emissions shall be determined in accordance with R 336.1303. **(R 336.1301)**
 - a) A six-minute average of 20 percent opacity, except for one six-minute average per hour of not more than 27 percent opacity.
 - b) A visible emission limit specified by an applicable federal new source performance standard.
 - c) A visible emission limit specified as a condition of this Permit to Install.

12. Collected air contaminants shall be removed as necessary to maintain the equipment at the required operating efficiency. The collection and disposal of air contaminants shall be performed in a manner so as to minimize the introduction of contaminants to the outer air. Transport of collected air contaminants in Priority I and II areas requires the use of material handling methods specified in R 336.1370(2). **(R 336.1370)**

13. The Department may require the permittee to conduct acceptable performance tests, at the permittee's expense, in accordance with R 336.2001 and R 336.2003, under any of the conditions listed in R 336.2001. **(R 336.2001)**

SPECIAL CONDITIONS

EMISSION UNIT SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Emission Unit ID	Emission Unit Description (Process Equipment & Control Devices)	Flexible Group ID
EUFLUIDBEDDRYER	A fluidized bed sand dryer installed in 1998. The dryer has a rated heat input capacity of 45 mmBtu/hr and uses propane, natural gas, No. 2 fuel oil, and/or recycled used oil. Emission controls include two cyclones and two wet scrubbers operated in parallel.	FGFACILITY
EUWEXFORD1	An existing sand screening process. This equipment takes dried sand and processes it with a combination of screens, conveyors, bucket elevators and other handling equipment. The finished product is stored in bins. The screens are enclosed. Only the screens are controlled by the shared baghouse dust collector.	FGSHARED, FGFACILITY
EUWEXFORD2	A new sand screening process. This equipment takes dried sand and processes it with a combination of equipment including 4 Megatex screens, 2 dry feed bins, conveyors, bucket elevators, surge hopper, and other handling equipment. The finished product is stored in bins. This equipment is controlled by the shared baghouse dust collector.	FGSHARED, FGFACILITY
EUTRUCKLOAD	The truck loading process consisting of a two way positioner and a spout. This equipment is controlled by the shared baghouse dust collector.	FGSHARED, FGFACILITY
EURAILLOAD	The rail loading process consisting of a two way positioner and a spout. This equipment is controlled by the shared baghouse dust collector.	FGSHARED, FGFACILITY
EUTRAFFIC	Truck and other heavy equipment associated with movement of sand on site. This does not include the truck loading processes.	FGFACILITY
EUSTORAGE	Sand storage piles. This is sand which has not gone through the drying process.	FGFACILITY
Changes to the equipment described in this table are subject to the requirements of R 336.1201, except as allowed by R 336.1278 to R 336.1290.		

The following conditions apply to: EUFLUIDBEDDRYER

DESCRIPTION: A fluidized bed sand dryer installed in 1998. The dryer has a rated heat input capacity of 45 mmBtu/hr and uses propane, natural gas, No. 2 fuel oil, and/or recycled used oil.

Flexible Group ID: FGFACILITY

POLLUTION CONTROL EQUIPMENT: Emission controls include two cyclones and two wet scrubbers operated in parallel.

I. EMISSION LIMITS

Pollutant	Limit	Time Period / Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. SO2	28.4 pph	Test Protocol*	EUFLUIDBEDDRYER	SC VI.2	R 336.1205(1)(a), R 336.1205(3), R 336.1402
2. SO2	83.7 tpy	12-month rolling time period as determined at the end of each calendar month	EUFLUIDBEDDRYER	SC VI.2	R 336.1205(1)(a), R 336.1205(3), R 336.1402
3. SO2	0.56 lb/MM BTU heat input ^A	24-hour rolling average	EUFLUIDBEDDRYER	SC VI.2	R 336.1205(1)(a), R 336.1205(3), R 336.1402
4. PM	0.048 lbs per 1000 lbs of dry exhaust gases ^B	Test Protocol*	EUFLUIDBEDDRYER	GC 13	R 336.1331
5. PM10	14.3 pph	Test Protocol*	EUFLUIDBEDDRYER	GC 13	40 CFR 52.21 Subparts (c) & (d)

* Test Protocol shall specify averaging time

^A This is equivalent to using No. 2 fuel oil with a 0.5 percent sulfur content and a heat value of 18,000 Btu per pound.

^B Calculated on a dry gas basis

6. Visible emissions from EUFLUIDBEDDRYER shall not exceed a six-minute average of 10 percent opacity. **(R 336.1301, R 336.1331, 40 CFR 52.21 Subparts (c) & (d))**

II. MATERIAL LIMITS

1. The permittee shall only burn the following fuels in EUFLUIDBEDDRYER: Propane, Natural Gas, No. 2 fuel oil, and Recycled Used Oil which meets the requirements contained within this permit. **(R 336.1224, R 336.1225, R 336.1402, 40 CFR 52.21 Subparts (c) & (d))**

2. The permittee shall not use more than 6,000 gallons per calendar day nor 1,960,000 gallons per calendar year of No. 2 fuel oil or Recycled Used Oil in EUFLUIDBEDDRYER. **(R 336.1205(1)a, R 336.1205(3), R 336.1402)**

3. The permittee shall not burn in EUFLUIDBEDDRYER any hazardous waste (as defined in state or federal law), blended fuel oil or specification recycled used oil (RUO) containing any contaminant that exceeds the following concentrations or for which the flash point, or ash content vary from the standards specified in the following table. **(R 336.1201(3), R 336.1225)**

Contaminant	Limit	Units
Arsenic	5.0	ppmw
Cadmium	2.0	ppmw
Chromium	10.0	ppmw
Lead	100.0	ppmw
PCBs	1.0	ppmw
Total Halogens	1000.0	ppmw
Sulfur	0.6	Weight %
Minimum Flash Point	100.0	°F
Maximum Ash Content	1.0	Weight %
Acidity	Min 4, Max 10	pH

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUFLUIDBEDDRYER for more than 5,900 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205, 40 CFR 52.21 Subparts (c) & (d))**
2. The permittee shall not operate EUFLUIDBEDDRYER unless the Compliance Monitoring Plan (CMP) for RUO specified in Appendix B, or an alternate plan approved by the AQD District Supervisor, is implemented and maintained. **(R 336.1201(3), R 336.1225, R 336.1371, R 336.1372, R 336.1910, R 336.1911)**
3. The permittee shall comply with all provisions of the federal Standards of Performance for New Stationary Sources as specified in 40 CFR Part 60 Subparts A and UUU, as they apply to EUFLUIDBEDDRYER. **(40 CFR Part 60 Subparts A & UUU)**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EUFLUIDBEDDRYER unless the two wet scrubbers and two cyclones are installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1224, R 336.1225, R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall complete all required calculations in a format acceptable to the AQD District Supervisor and make them available by the 15th day of the calendar month, for the previous calendar month, unless otherwise specified in any recordkeeping, reporting or notification special condition. **(R 336.1205, R 336.1224, R 336.1225, R 336.1402, 40 CFR 52.21 Subparts (c) & (d))**

2. The permittee shall keep the following information on a daily basis for EUFLUIDBEDDRYER:
- a) The hours of operation.
 - b) The identification, types and amounts (in gallons) of all fuels combusted.
 - c) Tons of sand processed.
 - d) The fuel consumption rate in gallons per ton of sand processed.
- The permittee shall keep the records in a format acceptable to the AQD District Supervisor. The permittee shall keep all records on file for a period of at least five years and make them available to the Department upon request. **(R 336.1205, R 336.1224, R 336.1225, R 336.1402, 40 CFR 52.21 Subparts (c) & (d))**
3. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EUFLUIDBEDDRYER at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**
- a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
4. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUFLUIDBEDDRYER. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVFLUIDBEDDRYER	60	41	40 CFR 52.21 Subparts (c) & (d)

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EUWEXFORD1

DESCRIPTION: An existing sand screening process. This equipment takes dried sand and processes it with a combination of screens, conveyors, bucket elevators and other handling equipment. The finished product is stored in bins. The screens are enclosed.

Flexible Group ID: FGSHARED, FGFACILITY

POLLUTION CONTROL EQUIPMENT: The screens are controlled by the shared baghouse dust collector.

I. EMISSION LIMITS

1. There shall be no visible emissions from the screening portion of EUWEXFORD1. Visible emission readings from the screens shall be taken from outside the enclosure building. **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The screening portion of EUWEXFORD1 shall be enclosed in a building. **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the screening portion of EUWEXFORD1 unless the shared baghouse dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from the screening portion of EUWEXFORD1 at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
2. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUWEXFORD1. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EUWEXFORD2

DESCRIPTION: A new sand screening process. This equipment takes dried sand and processes it with a combination of equipment including 2 Megatex screens, 2 dry feed bins, conveyors, bucket elevators, surge hopper, and other handling equipment. The finished product is stored in bins.

Flexible Group ID: FGSHARED, FGFACILITY

POLLUTION CONTROL EQUIPMENT: This equipment is controlled by the shared baghouse dust collector.

I. EMISSION LIMITS

1. There shall be no visible emissions from the screening portion of EUWEXFORD2. Visible emission readings from the screens shall be taken from outside the enclosure building. **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The screening portion of EUWEXFORD2 shall be enclosed in a building. **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the screening portion of EUWEXFORD2 unless the shared baghouse dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EUWEXFORD2 at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
2. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUWEXFORD2. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EUTRUCKLOAD

DESCRIPTION: The truck loading process consisting of a two way positioner and a spout.

Flexible Group ID: FGSHARED, FGFACILITY

POLLUTION CONTROL EQUIPMENT: This equipment is controlled by the shared baghouse dust collector.

I. EMISSION LIMITS

1. Visible emissions from the drop point and transfer point portions of EUTRUCKLOAD shall not exceed a six-minute average of 5 percent opacity. **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EUTRUCKLOAD for more than 5,900 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205, 40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EUTRUCKLOAD unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep, in a satisfactory manner, a log of the daily hours of operation of EUTRUCKLOAD. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **(R 336.1205, 40 CFR 52.21 Subparts (c) & (d))**
2. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EUTRUCKLOAD at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
3. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUTRUCKLOAD. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EURAILLOAD

DESCRIPTION: The rail loading process consisting of a two way positioner and a spout.

Flexible Group ID: FGSHARED, FGFACILITY

POLLUTION CONTROL EQUIPMENT: This equipment is controlled by the shared baghouse dust collector.

I. EMISSION LIMITS

1. Visible emissions from the drop point and transfer point portions of EURAILLOAD shall not exceed a six-minute average of 5 percent opacity. **(R 336.1301, 40 CFR 52.21(c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate EURAILLOAD for more than 5,900 hours per 12-month rolling time period as determined at the end of each calendar month. **(R 336.1205, 40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate EURAILLOAD unless the baghouse dust collector is installed, maintained, and operated in a satisfactory manner. **(R 336.1205, R 336.1331, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep, in a satisfactory manner, a log of the daily hours of operation of EURAILLOAD. The permittee shall keep all records on file at the facility for a period of at least five years and make them available to the Department upon request. **(R 336.1205, 40 CFR 52.21 Subparts (c) & (d))**
2. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EURAILLOAD at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
3. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EURAILLOAD. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EUTRAFFIC

DESCRIPTION: Truck and other heavy equipment associated with movement of sand on site. This does not include the truck loading processes.

Flexible Group ID: FGFACILITY

POLLUTION CONTROL EQUIPMENT: As described in the fugitive dust control plan.

I. EMISSION LIMITS

1. Visible emissions from all wheel loaders and all truck traffic, operated in conjuncture with EUTRAFFIC, shall not exceed a six-minute average of 5 percent opacity. **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not exceed a maximum equivalent of 4,900 50-ton transport trucks entering and leaving the facility for each calendar year. **(R 336.1371, Act 451 324.5521, 40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

N/A

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep a daily record of the type, size (weight) and number of transport trucks entering and leaving the facility. Passenger vehicles do not count as transport vehicles. Each month, in a manner acceptable to the AQD District Supervisor, the permittee shall calculate an equivalent number of 50-ton transport trucks entering and leaving the facility based on that month's daily records. The permittee shall keep all records and calculations on file at the facility for a period of at least five years and make them available to the Department upon request. **(R 336.1371, Act 451 324.5521, 40 CFR 52.21 Subparts (c) & (d))**
2. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EUTRAFFIC at least once per calendar month, when vehicle traffic is present. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9D. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9D visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
3. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUTRAFFIC. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: EUSTORAGE

DESCRIPTION: Sand storage piles. This is sand which has not gone through the drying process.

Flexible Group ID: FGFACILITY

POLLUTION CONTROL EQUIPMENT: As described in the fugitive dust control plan.

I. EMISSION LIMITS

1. Visible emissions from each of the material storage piles maintained under EUSTORAGE shall not exceed a six-minute average of 5 percent opacity. Compliance shall be demonstrated using Test Method 9D as defined in Section 324.5525(j) of Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451). **(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))**

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

N/A

IV. DESIGN/EQUIPMENT PARAMETERS

N/A

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from EUSTORAGE at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9 or 22. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 or 22 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 or 22 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
2. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from EUSTORAGE. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

FLEXIBLE GROUP SUMMARY TABLE

The descriptions provided below are for informational purposes and do not constitute enforceable conditions.

Flexible Group ID	Flexible Group Description	Associated Emission Unit IDs
FGSHARED	Three individual sand screening processes, the truck loading operations, and the rail loading operations which share a common baghouse dust collector.	EUWEXFORD1, EUWEXFORD2, EUTRUCKLOAD, EURAILLOAD
FGFACILITY	All process equipment source-wide including equipment covered by other permits, grand-fathered equipment and exempt equipment.	NA

The following conditions apply to: FGSHARED

DESCRIPTION: Three individual sand screening processes, the truck loading operations, and the rail loading operations which share a common baghouse dust collector.

Emission Units: EUWEXFORD1, EUWEXFORD2, EUTRUCKLOAD, EURAILLOAD

POLLUTION CONTROL EQUIPMENT: A common baghouse dust collector

I. EMISSION LIMITS

Pollutant	Limit	Time Period/ Operating Scenario	Equipment	Testing / Monitoring Method	Underlying Applicable Requirements
1. PM	0.01 lbs per 1000 lbs of dry exhaust gases ^B	Test Protocol*	FGSHARED	GC 13	R 336.1331
2. PM10	1.2 pph	Test Protocol*	FGSHARED	GC 13	40 CFR 52.21 Subparts (c) & (d)

* Test Protocol shall specify averaging time
^B Calculated on a dry gas basis

3. Visible emissions from FGSHARED shall not exceed a six-minute average of 5 percent opacity.
(R 336.1301, 40 CFR 52.21 Subparts (c) & (d))

II. MATERIAL LIMITS

N/A

III. PROCESS/OPERATIONAL RESTRICTIONS

N/A

IV. DESIGN/EQUIPMENT PARAMETERS

N/A

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall perform and record the results of a six-minute non-certified visible emission observation from FGSHARED at least once per calendar month. The visible emission check shall verify the presence of visible emissions and need not follow the procedures specified in Federal Reference Test Method 9. Each visible emission observation shall be taken during routine operating conditions. If visible emissions are observed, the permittee shall immediately implement the following procedures. **(R 336.1301, R 336.1303, R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**
 - a) If visible emissions have been observed during the six-minute non-certified visible emission check, the permittee shall perform and record the results of a 15 minute Federal Reference Test Method 9 visible emission observation.
 - b) If the results of the Federal Reference Test Method 9 visible emission observation indicate a violation of the opacity standard, the permittee shall immediately initiate corrective actions and document the corrective actions taken.
2. The permittee shall keep, in a satisfactory manner, records of all visible emission observations from FGSHARED. At a minimum, records shall include the date, time, name of observer/reader, whether the reader is certified, and status of visible emissions. The permittee shall keep all records on file at the facility and make them available to the Department upon request. **(R 336.1301, R 336.1303, 40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

The exhaust gases from the stacks listed in the table below shall be discharged unobstructed vertically upwards to the ambient air unless otherwise noted:

Stack & Vent ID	Maximum Exhaust Diameter/Dimensions (inches)	Minimum Height Above Ground (feet)	Underlying Applicable Requirements
1. SVSHARED	42	50	40 CFR 52.21 Subparts (c) & (d)

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

The following conditions apply to: FGFACILITY

DESCRIPTION: All process equipment source-wide including equipment covered by other permits, grandfathered equipment and exempt equipment.

POLLUTION CONTROL EQUIPMENT: N/A

I. EMISSION LIMITS

1. Visible emissions from the drop point and transfer point portions of FGFACILITY shall not exceed 10 percent opacity. **(R 336.1301, 40 CFR Subparts 52.21 (c) & (d))**

II. MATERIAL LIMITS

1. The permittee shall not process any asbestos tailing or asbestos containing waste materials in FGFACILITY pursuant to the National Emission Standards for Hazardous Air Pollutants, 40 CFR Part 61 Subpart M. **(40 CFR Part 61 Subpart M)**
2. The permittee shall not process more than 3,600 tons of dry material per day nor 1,080,000 tons of dry material through FGFACILITY per 12-month rolling time period as determined at the end of each calendar month. **(40 CFR 52.21 Subparts (c) & (d))**

III. PROCESS/OPERATIONAL RESTRICTIONS

1. The permittee shall not operate FGFACILITY unless the program for continuous fugitive emissions control for all plant roadways, the plant yard, all material storage piles, and all material handling operations specified in Appendix A has been implemented and is maintained. **(R 336.1371)**
2. The permittee shall vegetate all nonproduction areas of the sand mining and processing area. **(40 CFR 52.21 Subparts (c) & (d))**
3. The permittee shall maintain a fence along the west boundary property line. **(40 CFR 52.21 Subparts (c) & (d))**

IV. DESIGN/EQUIPMENT PARAMETERS

1. The permittee shall not operate the conveyors and transfer points contained in FGFACILITY unless covers are installed, maintained and operated in a satisfactory manner. **(R 336.1910, 40 CFR 52.21 Subparts (c) & (d))**
2. Within 45 days of issuance of this permit, the permittee shall label all equipment not previously labeled, according to a method acceptable to the AQD District Supervisor. Labels shall be in a conspicuous location on the equipment. Within seven days of completing any required labeling, the permittee shall notify the AQD District Supervisor, in writing, as to the date the labeling was completed. **(R 336.1201)**

V. TESTING/SAMPLING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

N/A

VI. MONITORING/RECORDKEEPING

Records shall be maintained on file for a period of five years. **(R 336.1201(3))**

1. The permittee shall keep daily and monthly records of the amount of material processed through FG FACILITY. Further the permittee shall calculate on a monthly basis, the yearly throughput rate based upon the most recent 12-month rolling time period. The permittee shall keep records of the amount of material processed on file for a period of at least five years and make them available to the Department upon request. **(40 CFR 52.21 Subparts (c) & (d))**

VII. REPORTING

N/A

VIII. STACK/VENT RESTRICTIONS

N/A

IX. OTHER REQUIREMENTS

N/A

Footnotes:

¹This condition is state only enforceable and was established pursuant to Rule 201(1)(b).

APPENDIX A

FUGITIVE DUST PLAN WEXFORD SAND PLANT

1.0 STORAGE PILES

The storage piles at the facility during normal operations consist of the following:

- Surge pile
- Main stockpile
- Excess superblast sand
- Excavated sand from effluent basin
- Gravel (overs from washing operating)

The sand in the surge pile and main stockpiles (beneficiated damp sand) initially contain 20 to 22 percent moisture by weight. The stockpiles drain to a moisture content of 3.5 to 10 percent inherent moisture by weight before being transferred to the dryer. Due to the high moisture content of this sand and the coarse nature of the material, the impacts from the negligible fugitive emissions due to erosion and removal of material from the piles are minimal.

The beneficiated sand (main) stockpile is built up by conveying the wet sand, via towers, and discharging this sand to the conical stockpile. The capacity of this stockpile varies from 20,000 to 700,000 tons. A portion of this stockpile is relocated by using wheel loaders, dozers or dragline to ensure storage over the winter months. Due to the very damp conditions of the sand and the fact that the equipment moves at low speeds, emissions from this activity are considered negligible.

During the wash plant operational period, generally March to November, the turn over from the surge pile is continuous and is approximately once per week. The side storage of this stockpile is normally not disturbed due to the drawdown of the sand. The side storage maintains a damp condition. During the winter shutdown periods, this stockpile is dozed off to level the conical peak.

The ground areas surround the westerly boundary of this main stockpile will be maintained damp by cutting the surface down using a wheel loader. If needed, a water wagon will be employed to wet these areas down on a daily basis during the wash plant operating periods. The east side of the access road adjacent to the process area will be wetted down.

During malfunction, there can be times when sand is carried with the effluent from the wash plant into the basin. Since this is typically high-quality sand, the sand is occasionally excavated from the first effluent basin drainage ditch. It is stored in a pile which will be limited to approximately 30 feet in height to minimize air drying. This sand, when adequately drained (to 3.5 to 10 percent moisture by weight), is hauled by mobile equipment and loaded on a conveyor belt system and then conveyed into the surge pile for reprocessing. Since this mobile equipment is only operating on the high-moisture floor of the basin area, fugitive emissions from the transfer of the sand are minimal, and this activity falls under the Rule 201 exemption for sand mining and processing. If this sand is unsuitable for reprocessing, it is spread onto the existing settling basin area.

Gravel scalped from the washing operation will be relocated to the designated stockpile north of the wash plant. Due to the very large size of this material, the gravel pile is not a significant source of fugitive emissions.

2.0 ROAD AND TRUCK TRAFFIC

All vendor transport trucks will be required to be tarped prior to leaving the truck loading facilities. The pneumatic haulage trucks will leave the property with the hatches covered and latched.

Speed limits will be posted for 10 mph.

Sand loading trucks will enter the property from the south (from 28 Mile Road). The plant access road from the north (26 Mile Road) will be limited to emergency ingress and egress only.

The potential fugitive dust on the plant entrance road will be controlled by applications of calcium chloride or other acceptable and approved compounds. Applications will be made once per month during the months of April through October.

A record of all applications will be kept on file and made available upon request to the Air Quality Division.

3.0 PIT OPERATION AND STRIPPING

All pit floor operation will be maintained as close to the existing water table as practicable. Since it is impossible to operate the mobile equipment on dry sand (compaction is critical) or in water over 6 inches deep, operations are at all times kept within 12 inches above the water table, and typically operate within 6 inches of the water table. Dust has never been observed in the mine pit area.

Overburden stripping will be performed during periods that minimize potential wind born dust being generated from the stripping. The overburden stripping occurs well within the property boundaries, and heavy vegetation surrounds the sand mining pit areas. The spoil piles will be dressed and sloped. The maximum height of spoil piles will be less than approximately 15 feet. Due to the rich organic nature of this material, the berms erected by the overburden material become vegetated within a year.

4.0 AQD/MDEQ INSPECTION

The provision and procedures of this plan are subject to adjustment if following an inspection and written notification the AQD finds the fugitive dust requirements and/or the permitted opacity limits are not being met.

APPENDIX B

Compliance Monitoring Plan for the Characterization of RECYCLED USED OIL

Purpose: This Compliance Monitoring Plan (CMP) describes the requirements for combusting recycled used oil (RUO) in Emission Unit EUFLUIDBEDDRYER. Each Purchase Order that is executed by a facility for the purchase of recycled used oil shall be accompanied by specific requirements that the supplier must meet. The requirements include RUO characterization information, Quality Assurance/Quality Control (QA/QC) data, and a demonstration that the RUO supplied does not exceed the allowable levels for RUO properties and constituents listed in this CMP, the Permit to Install special conditions, and 40 CFR 279.11.

In Michigan, used oil management is regulated by the Michigan Department of Environmental Quality (MDEQ) by several divisions under various Parts of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (Act 451), Act 207 of 1941, and the applicable Administrative Rules. In addition to the MDEQ regulations, used oil management may be subject to requirements of other agencies including, but not limited to the U.S. Environmental Protection Agency, the U.S. Department of Transportation, the Michigan Department of Consumer and Industry Services, and the local fire authorities. Information concerning applicable regulations may be obtained from the MDEQ Environmental Assistance Center at 1-800-662-9278.

REQUIREMENTS FOR SUPPLIERS OF RECYCLED USED OIL

A certificate of analysis shall be provided by the supplier upon delivery of each truckload of recycled used oil accepted for use as fuel at the facility. Each batch of RUO shall have a unique certificate of analysis. A batch is a quantity of used oil, contained in one storage unit (i.e., a tank, tanker truck, barge, etc.) where no additional oil is put into the storage unit after testing. If additional oil is added to a storage unit, a new certificate of analysis is necessary. Information to be presented on the certificate of analysis shall include:

- A unique batch identification number
- Date of delivery
- Dates of performance of analyses
- Analytical methods used
- Specific Gravity or API Gravity
- Higher Heating Value (in Btu per pound)
- Flash Point (in degrees Fahrenheit)
- Results of analyses for arsenic, cadmium, chromium, lead, polychlorinated biphenyls (PCBs), total halogens (all in units of parts per million by weight), and sulfur (percent by weight). The analyses shall report the detection limit for each component analyzed.
- The AQD recommends that the appropriate allowable levels for RUO properties and constituents be listed on the certificate of analysis to simplify verification.

ALLOWABLE LEVELS

Allowable levels for RUO properties and constituents are listed in the Permit to Install special conditions and below:

PROPERTY/CONSTITUENT	ALLOWABLE LEVEL
Higher Heating Value	17,000 Btu per pound, minimum
Flash Point	100 degrees Fahrenheit, minimum
Arsenic	5.0 ppm, maximum
Cadmium	2.0 ppm, maximum
Chromium	10.0 ppm, maximum
Lead	100.0 ppm, maximum
Sulfur	0.6 percent, maximum
Polychlorinated Biphenyls (PCBs)	1.0 ppm, maximum
Total Halogens	1,000 ppm, maximum
Maximum Ash Content	1.0 % by weight
Acidity	minimum pH =4; maximum pH = 10

ON-SITE RUO CHARACTERIZATION PROGRAM

Upon receipt of each shipment of RUO by the facility, a check shall be made to ensure no exceedances of the allowable levels for RUO properties and constituents are identified by the supplier's analytical results. A representative sample shall be screened for Total Halogens using U.S. EPA SW-846 Method 9077 (Chlor-D-Tect 1000) and the screening results recorded. If the certificate of analysis shows an exceedance of an allowable level or the screening shows an exceedance of the allowable level for Total Halogens, the shipment shall not be accepted by the facility.

Verification of the supplier certificate of analysis information, by testing, at owner's expense, in accordance with Department requirements will be required. Random monthly sampling and analysis shall be conducted for each supplier of RUO for the first year during which Emission Unit EUFLUIDBEDDRYER is operated and RUO is delivered, beginning at the date of the first delivery of RUO by the supplier. Thereafter, sampling and analysis shall be conducted not less than once per calendar quarter in which RUO is received for each supplier of RUO.

Sampling: Samples shall be taken at the time of delivery from the delivery vehicle, prior to mixing with oil in the on-site storage tank, and labeled with the batch identification number. Sufficient RUO shall be collected to provide two samples, each of sufficient volume for the required analyses. If one of the two samples is sent to an independent laboratory for analysis, the second sample shall be kept available for duplicate analysis. Sample collection, handling, and storage shall be in accordance with the Quality Assurance Plan to be provided by the independent laboratory. Samples shall be kept available for not less than five months from the date of collection.

Analysis: The purpose of the analysis of the RUO sample is the verification of the information provided in the supplier certificate of analysis. The required analyses are listed in the section of this CMP titled "Requirements for Suppliers of Recycled Used Oil." Results of the analyses shall be reported to the facility within the appropriate sample holding time for each analytical method to provide the opportunity for analysis of the duplicate sample.

Laboratory: A Quality Assurance Plan (QAP) shall be developed by any independent laboratory used by the facility for RUO analysis. A copy of the QAP shall be submitted by the facility to the AQD, District Office 60 days prior to the use of that laboratory. Detailed in the QAP will be the QA/QC procedures, sample handling, storage, and chain of custody procedures, analytical methods for all analyses, a description of the laboratory instrumentation, and the instrumental detection limits. The analytical methods used by the independent laboratory must be consistent with the methods used by the RUO supplier's laboratory. A list of acceptable QA/QC requirements may be obtained from AQD, Compliance Support Unit in Lansing. The facility shall maintain a copy of the approved QAP on site.

EXCEEDANCES OF ALLOWABLE LEVELS

All exceedances of allowable levels will be reviewed by the AQD for enforcement actions. In addition to possible enforcement actions the facility shall take all appropriate actions described in Step 1 and Step 2 below to address the exceedance.

ACTIONS TO BE TAKEN:

STEP 1

If the laboratory analytical results reported under the on-site RUO characterization program show that an allowable level has been exceeded, the facility shall notify the AQD, District Office verbally within two business days after receiving these analytical results. The verbal notification shall be followed by a written report of the results within five business days after making the verbal report.

At the option of the facility, the duplicate sample may be analyzed within the appropriate sample holding time for each analytical method after the facility receives the results showing an exceedance of any allowable level. Analysis may be performed solely for that property or constituent for which an exceedance is identified.

Upon receipt of the laboratory results for the duplicate sample, the facility shall notify the AQD, District Office verbally within two business days of receiving them. The verbal notification shall be followed by a written report of the results within five business days after making the verbal report.

STEP 2

When an exceedance of an allowable level is identified the facility shall:

- Notify the RUO supplier that an exceedance has occurred.
- Provide copies of the laboratory analytical results to the RUO supplier.
- Inform the RUO supplier of the required increase in sampling frequency described below.
- Explain the requirement for discontinuing RUO deliveries if a second exceedance occurs within six months.

Increase in Sampling Frequency: When an exceedance occurs, samples from three of the next six loads of RUO received from the supplier shall be collected and analyzed in accordance with the on-site RUO characterization program contained in this CMP. Thereafter, monthly random sampling shall continue for the next 12 months from the date of receipt of the load from which the exceedance occurred.

Discontinuing RUO Deliveries: If a second load of recycled used oil from the same supplier has an exceedance within six months after the first exceedance, the facility shall immediately discontinue accepting RUO deliveries from that supplier. If a supplier is terminated as a result of a second exceedance within six months, the facility shall notify the AQD, District Office in writing within ten business days that RUO deliveries from the supplier have been discontinued.

REPORTING REQUIREMENTS

Upon request from the AQD, District Supervisor and solely for those quarters in which RUO was delivered to the facility, summaries, based on calendar quarters, supplier certificates of analysis and the analytical results obtained from the on-site RUO characterization program shall be provided to the AQD, District Supervisor no later than thirty (30) days following the last day in the calendar quarter. Each quarterly summary shall include the following information:

- RUO supplier's name for each delivery;
- Date of each delivery and sample;
- Batch identification number;
- Whether an allowable level for RUO properties and constituents was exceeded (for each sample) and identification of which allowable level(s), if any, were exceeded.

RECORDKEEPING REQUIREMENTS

Copies of the supplier certificates of analysis, the analytical results obtained from the on-site RUO characterization program, and quarterly summaries as described above shall be kept on file for a period of at least five years from the date of receipt and made available to the AQD upon request.

INSPECTIONS

If an AQD inspector visits the facility to collect samples of the RUO, sufficient RUO shall be provided to the inspector for the required analyses listed in this Compliance Monitoring Plan.

RECYCLED USED OILS WITH HALOGEN CONCENTRATIONS OVER 1,000 PPM

An Addendum to this Compliance Monitoring Plan contains additional requirements for Recycled Used Oil with halogen concentrations over 1000 parts per million (ppm). The use as a fuel of RUO containing greater than 1,000 ppm halogens must be specifically allowed in the Special Conditions of the Air Use Permit for the facility.