BEFORE THE
OHIO ENVIRONMENTAL PROTECTION AGENCY

In the Matter of:

Republic Steel
2633 8th Street, NE
Canton, Ohio 44704

Respondent

: Director’s Final Findings
and Orders

PREAMBLE

It is agreed by the Parties hereto as follows: [Signature]

I. JURISDICTION

These Director’s Final Findings and Orders (“Orders”) are issued to Republic Steel (“Respondent”) pursuant to the authority vested in the Director of the Ohio Environmental Protection Agency (“Ohio EPA”) under Ohio Revised Code (“ORC”) §§ 6111.03 and 3745.01.

II. PARTIES BOUND

These Orders shall apply to and be binding upon Respondent and successors in interest liable under Ohio law. No change in the composition of Respondent shall in any way alter Respondent’s obligations under these Orders.

III. DEFINITIONS

Unless otherwise stated, all terms used in these Orders shall have the same meaning as defined in ORC Chapters 6111 and 3745, and the rules promulgated thereunder.

IV. FINDINGS

The Director has made the following findings:

1. Respondent owns and operates a steel manufacturing facility located at 1807 E. 28th Street, Lorain, Ohio (“the Facility”). Currently, the Facility is idle and groundwater/stormwater has been accumulating in basements, cellars and pits throughout the Facility. Certain equipment is either under water or is in imminent threat of being submerged as water levels continue to rise at the Facility. Respondent has identified the following equipment at risk, with potentially more equipment still needing to be inventoried:
Bar Mill

- Water coming into basements in the Bar Mill threatens to destroy the following equipment:
  - 4 2300-volt motors feeding process water pumps for the Bar Mill;
  - 6 2300-volt breakers that feed power into the cellar;
  - 4 480-volt 5 horsepower motors for the hydraulic pumps;
  - 3 480-volt 10 horsepower motors for the precipitron room fans;
  - 4 total 480-volt 5 horsepower motors for the two lube systems in the adjoining pile systems.

Rolling Mill

In the Rolling Mill, the oil clears are already underwater. The substation basement is now flooding and has about 2 feet of water in this location.

- 3 different rotating MG sets and regulator contractor boards are located in this cellar. This equipment is no longer manufactured and would be costly to replace;
- Approximately four 5-horsepower and three 10-horsepower fans are located in this cellar;
- There are a number of buss connections located in this cellar that will have to be dried out before it can be determined if they are a total loss.

2. On February 5, 2019, Respondent reported to the Emergency Response Spill Hotline an oil sheen to Ohio EPA. Remedial measures were taken, and it was determined that the source of the oil was most likely the Rolling Mill area of the Facility. An NOV was issued on February 5, 2019 for the illegal discharge of oil to waters of the state.

3. Respondent has notified Ohio EPA that is was pumping groundwater and stormwater from basements, cellars and pits located in the Bar Mill and Rolling Mill. Respondent submitted analytical data to Ohio EPA via eDMRs during the time period Republic Steel was pumping water from the basements, cellars and pits at the Facility. Monitoring data from Outfall 005 did not show significant issues. Monitoring data from Outfall 005 did show an occasional chlorine residual exceedance which Respondent was actively working with Ohio EPA to address. Ohio EPA raised concern that the monitoring at Outfall 005 where the discharge
was being directed did not include a full suite of parameters, including metals, SVOCs or VOCs (although such sampling is not required under the current NDPES permit). Ohio EPA and Respondent are currently negotiating language in Respondent’s renewal National Pollutant Discharge Elimination System (“NPDES”) permit regarding discharges of groundwater and stormwater from basements, cellars and pits at the Facility.

4. On June 26, 2019, Respondent reported to the Emergency Response Spill Hotline that an oil sheen was being discharged from the Facility to the Black River. Ohio EPA discovered that a pump from the Bar Mill scale pit was causing the release of oil to a storm sewer and then to the Black River. Ohio EPA, Respondent, and Respondent’s consultant took remedial measures to contain the oil spill. Ohio EPA issued a Notice of Violation letter on June 26, 2019 for the illegal discharge of oil to waters of the state.

5. Currently, Respondent has been pumping the water to two 21,000-gallon frac tanks in the Bar Mill and is bringing two additional 21,000-gallon frac tanks to the Facility to provide storage. Respondent is currently hauling the water from the tanks to a facility in Youngstown for disposal. However, water levels continue to rise at the Facility, threatening to further damage equipment.

6. Respondent has proposed to resume discharging the water onsite after additional treatment is provided through portable treatment units while respondent gathers additional sampling to address Ohio EPA’s concerns that additional sampling is needed to characterize the condition of water in the basements, cellars and pits, including sampling for VOCs, SVOCs and metals. The proposed treatment will discharge at a rate of 50 gpm.

7. The Director has given consideration to, and based her determination on, evidence relating to the technical feasibility and economic reasonableness of complying with these Orders and to evidence relating to conditions calculated to result from compliance with these Orders, and its relation to the benefits to the people of the State to be derived from such compliance in accomplishing the purpose of ORC Chapter 6111.

V. ORDERS

1. Respondent may immediately recommence discharging the accumulated water from the Bar Mill (Outfall 605) and Primary Mill (Outfall 604) scale pits, provided that the water has been treated pursuant to the portable treatment system described in Attachment A, which is hereby incorporated into and made a part of these Orders.

2. The treated water shall meet the following temporary discharge limits:
Republic Steel  
Director’s Final Findings and Orders  
Page 4

Table 1. Limits and Monitoring Requirements for Temporary Discharge

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Reporting Code</th>
<th>Concentration Limits</th>
<th>Monitoring Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>30-day average</td>
<td>Daily maximum</td>
</tr>
<tr>
<td>Flow estimate (MGD)</td>
<td>50050</td>
<td>24-Hr. Estimate</td>
<td></td>
</tr>
<tr>
<td>pH (S.U.)</td>
<td>00400</td>
<td>6.5-9.0</td>
<td></td>
</tr>
<tr>
<td>Total Suspended Solids (mg/L)</td>
<td>00300</td>
<td>--</td>
<td>65</td>
</tr>
<tr>
<td>Oil and Grease (mg/l)</td>
<td>00552</td>
<td>--</td>
<td>10</td>
</tr>
<tr>
<td>Zinc, Total Recoverable (ug/l)</td>
<td>01094</td>
<td>Monitor</td>
<td></td>
</tr>
<tr>
<td>Chlorine, Total Residual (mg/l)</td>
<td>50060</td>
<td>--</td>
<td>0.019</td>
</tr>
</tbody>
</table>

All sampling set forth in Table 1 shall be grab samples.

(Reports should be submitted after the end of each month during which you have coverage under these Orders, regardless of whether or not a discharge occurred during the month. Instructions for electronic submittal of data can be found on Ohio EPA’s website at:

http://epa.ohio.gov/dsw/edmr/eDMR.aspx

The chlorine limit listed above is less than the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136.

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit.

Respondent must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring total residual chlorine.

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

- Results above the QL: Report the analytical result for the parameter of concern.
- Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
- Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

3. The following table of quantification levels will be used to determine compliance with total residual chlorine in these Orders:
Parameter | PQL
---|---
Chlorine, tot. res. | 0.050 mg/l

4. The discharge of the following treatment additives in the emergency discharge are approved at the following concentrations:

**Table 2. Approved Treatment Additives**

<table>
<thead>
<tr>
<th>Additive</th>
<th>Concentration (mg/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Klaraid CDP 1348</td>
<td>5</td>
</tr>
<tr>
<td>MetClear MR 2405</td>
<td>3</td>
</tr>
<tr>
<td>BetzDearborn DCL 30</td>
<td>5</td>
</tr>
</tbody>
</table>

5. Respondent shall submit an after-the-fact Permit to Install ("PTI") for the installation of the portable treatment unit and an NPDES permit modification for the discharge. Respondent shall operate the portable treatment system pursuant to the requirements of these Orders until such time as the PTI is approved and a new or modified NPDES permit has been issued which includes the discharge or until a request pursuant to Order number 7 has been granted.

6. Within thirty (30) days, Respondent will also obtain two more rounds of sampling from the scale pits associated with the Bar Mill and Rolling Mill where water is pumped to, and will analyze for the full set of parameters (*i.e.* Form 2C sampling) as was previously done with the Bar Mill sampling.

7. Once sufficient data has been obtained demonstrating that the portable treatment unit is consistently meeting the proposed discharge limits, Respondent may request to reduce monitoring. In addition, if sampling of the water prior to treatment shows the condition of the water does not warrant treatment with the portable treatment unit, Respondent may request that treatment with the portable treatment unit or portions thereof may be discontinued.

**VI. TERMINATION**

These Orders shall terminate automatically when both the after-the-fact PTI has been approved by Ohio EPA and a new or modified NPDES permit has been issued which includes the discharge from the pits or a request pursuant to Order 7 has been granted. Otherwise, Respondent's obligation under these Orders shall terminate when Respondent certifies in writing and demonstrates to the satisfaction of Ohio EPA that Respondent has performed all obligations under these Orders and the Chief of Ohio EPA's Division of Surface Water acknowledges, in writing, the termination of these Orders. If Ohio EPA does not agree that all
obligations have been performed, then Ohio EPA will notify Respondent of the obligations that have not been performed, in which case Respondent shall have an opportunity to address any such deficiencies and seek termination as described above.

The certification shall contain the following attestation: “I certify that the information contained in or accompanying this certification is true, accurate and complete.” This certification shall be submitted by Respondent to Ohio EPA.

VII. OTHER APPLICABLE LAWS

All actions required to be taken pursuant to these Orders shall be undertaken in accordance with the requirements of all applicable local, state and federal laws and regulations. These Orders do not waive or compromise the applicability and enforcement of any other statutes or regulations applicable to Respondent.

VIII. MODIFICATIONS

These Orders may be modified by agreement of the parties hereto. Modifications shall be in writing and shall be effective on the date entered in the journal of the Director of Ohio EPA.

IX. RESERVATION OF RIGHTS

Ohio EPA and Respondent each reserve all rights, privileges, defenses and causes of action, except as specifically waived in Section XI of these Orders. Without admission of law, fact, violation or liability, Respondent consents to the issuance of these Orders and agrees to comply with these Orders.

X. NOTICE

Unless otherwise specified, all documents required to be submitted by Respondent pursuant to these Orders shall be addressed to:

Ohio Environmental Protection Agency
Northeast District Office
2110 East Aurora Road
 Twinsburg, Ohio 44087
Division of Surface Water

XI. WAIVER

Respondent hereby waive the right to appeal the issuance, terms and conditions, and service of these Orders, and Respondent hereby waive any and all rights Respondent may have to
seek administrative or judicial review of these Orders either in law or equity.

Notwithstanding the preceding, Ohio EPA and Respondent agree that if these Orders are appealed by any other party to the Environmental Review Appeals Commission, or any court. Respondent retain the right to intervene and participate in such appeal. In such an event, Respondent shall continue to comply with these Orders notwithstanding such appeal and intervention unless these Orders are stayed, vacated or modified.

XII. EFFECTIVE DATE

The effective date of these Orders is the date these Orders are entered into the Ohio EPA Director's journal.

XIII. SIGNATORY AUTHORITY

Each undersigned representative of a party to these Orders certifies that he or she is fully authorized to enter into these Orders and to legally bind such party to these Orders.

IT IS SO ORDERED AND AGREED:
Ohio Environmental Protection Agency

Laurie A. Stevenson
Director

Signature

Date

IT IS SO AGREED:
Republic Steel

Signature

Printed or Typed Name

Date
Attachment A
DESCRIPTION OF TREATMENT TECHNOLOGIES
Lightweight, Stainless Steel Skimmers For Recovery Of Oil And Effluent

The Megator Alpha Skimmer is one of the most versatile designs on the market. Made entirely from tough, corrosion resistant stainless steel, the Alpha Skimmer can deal with a variety of aggressive liquids at varying depths and concentrations.

- Waste water treatment
- Storage tanks
- Leachate ponds
- Sewage plants
- Petrochemical processing
- Ponds & lakes
- Equalization tanks
- Airports
- Railway depots
- Sheltered harbors & docks
- Sumps & boreholes
- Manufacturing Facilities

- Effluent removal at a chemical plant
- Sewage scum removal
- Oil recovery from a pond
- Lightweight design - Easy one man operation
- Adjustable intake weir - Enabling the skimmer to be set for optimum efficiency
- Tri-float design - Provides exceptional stability
- Comprehensive range - Available in four sizes, 1 1/2", 2", 3" & 4"
- Shallow draft - Can operate in 12" water depth
- Versatile - Options include:
  Folding skimmer, Screen kit, Detachable floats, Guide rails & Mooring eyes

- The folding skimmer option provides exceptional versatility, allowing the skimmer to be lowered through manholes and boreholes; ‘self-deploying’ on contact with water.
- The Alpha Skimmer fitted with a screen kit, preventing floating debris from clogging the skimmer or damaging the pump.
- Fitted with guide rails & mooring eyes. Securing the skimmer in the desired area, yet allowing it to rise and fall with the water level.
Oil Water Separators (OWS), also known as coalescers, are effective for the continuous flow separation of non-emulsified free oils and other immiscible liquids. Since free oil can be a problematic contaminant for other treatment equipment, it is important to remove as much as possible before further treatment. An OWS can remove up to 100% of free oil larger than 20 microns.

HOW IT WORKS

An OWS uses a specialized oleophillic media pack that attracts oil and repels water. As the waste stream enters the tank, the oil agglomerates on the media pack as the water passes through. The oil agglomerate grows in size on the media pack until it eventually detaches and floats to the surface. The water portion of the waste goes through the media and then through a series of baffles to ensure a clean effluent. The oil that floats is skimmed from the surface.

FEATURES & BENEFITS

- Typical effluent contains less than 10 ppm free oil
- Reclaimed oil typically has less than 1% water content
- Oleophillic media able to handle high temperature
- Open tube media design allows any solids to settle to the bottom of the tank, which prevents media plugging
- Adjustable weirs make fine tuning very simple
- Construction options include coated steel, stainless steel, or polypropylene
- EPS Wastewater can custom fabricate to any desired size
- EPS Wastewater can provide the entire wastewater treatment system around the OWS
- Flow ranges from 5 - 1750 GPM

APPLICATIONS

- Metals manufacturing and processing
- Automotive parts manufacturing
- Environmental remediation
- Railroad repair yards
- Airports and aircraft services
- Power plant operations
- Petroleum refineries
- Chemical processing
- Machine coolant recycle

OUR FULL LINE OF TECHNOLOGIES INCLUDES:

- Inclined Plate Clarifiers (IPC)
- Multi-Media Filters (MMF)
- Ultrafilters (UF)
- pH Adjustment Systems
- Pump Skids
- Control Panels
- Dissolved Air Flotation (DAF)
- Oil / Water Separators (OWS)
- Batch Treatment Systems
- Skid Mounted Equipment
- Filter Presses
- Flash Mix and Flocculation

Our mission is to deliver wastewater treatment equipment and solutions that effectively and economically address the needs of our customers.
<table>
<thead>
<tr>
<th>Model</th>
<th>Overall Length</th>
<th>Overall Width</th>
<th>Overall Height</th>
<th>Surface Coalescing Area (ft²)</th>
<th>Design flow rate (GPM)</th>
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<tbody>
<tr>
<td>OWS10</td>
<td>4’ - 8”</td>
<td>1’ - 5”</td>
<td>3’ - 0”</td>
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[www.epswastewater.com]
SCHEMATIC DRAWING OF PORTABLE TREATMENT UNITS